

AIR QUALITY ASSESSMENT

**1118 N. Anza Street Residential Development
PDS2018-TM-5628/REZ-18-003
County of San Diego, CA**

Lead Agency:

**County of San Diego
Planning & Development Services
5510 Overland Avenue, Suite 110
San Diego, CA 92123**

Prepared By:

**Jeremy Loudon
Ldn Consulting, Inc.
42428 Chisolm Trail
Murrieta, CA 92562**

Prepared For:

**Hall Land Company, Inc.
740 Lomas Santa Fe Drive, Suite 204
Solana Beach, CA 92075**

November 28, 2018

TABLE OF CONTENTS

TABLE OF CONTENTS.....	II
LIST OF FIGURES.....	III
LIST OF TABLES	III
APPENDIX	III
LIST OF ACRONYMS.....	IV
EXECUTIVE SUMMARY	V
1.0 INTRODUCTION	1
1.1 PURPOSE OF THIS STUDY	1
1.2 PROJECT LOCATION	1
1.3 PROJECT DESCRIPTION	1
2.0 EXISTING ENVIRONMENTAL SETTING.....	4
2.1 EXISTING SETTING	4
2.2 CLIMATE AND METEOROLOGY	4
2.3 REGULATORY STANDARDS.....	4
2.3.1 FEDERAL STANDARDS AND DEFINITIONS	4
2.3.2 STATE STANDARDS AND DEFINITIONS.....	6
2.3.3 REGIONAL STANDARDS.....	8
2.4 CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) SIGNIFICANCE THRESHOLDS.....	9
2.5 SDAPCD RULE 20.2 – AIR QUALITY IMPACT ASSESSMENT SCREENING THRESHOLDS	10
2.6 LOCAL AIR QUALITY.....	11
3.0 METHODOLOGY.....	14
3.1 CONSTRUCTION EMISSIONS CALCULATIONS.....	14
3.2 CONSTRUCTION ASSUMPTIONS.....	15
3.3 OPERATIONAL EMISSIONS	17
3.4 MICRO SCALE OPERATIONAL EMISSIONS	17
3.5 ODOR IMPACTS (ONSITE)	18
4.0 FINDINGS.....	19
4.1 CONSTRUCTION FINDINGS	19
4.2 HEALTH RISK.....	19
4.3 OPERATIONAL FINDINGS.....	20
4.4 CUMULATIVE IMPACT FINDINGS.....	21
4.5 CONCLUSION OF FINDINGS.....	22
5.0 REFERENCES	23
6.0 CERTIFICATIONS	24

List of Figures

FIGURE 1-A: PROJECT VICINITY MAP	2
FIGURE 1-B: PROPOSED PROJECT SITE LAYOUT	3
FIGURE 2-A: AMBIENT AIR QUALITY MONITORING STATIONS WITHIN SDAB – CARB	13

List of Tables

TABLE 2.1: AMBIENT AIR QUALITY STANDARDS	7
TABLE 2.2: SAN DIEGO COUNTY AIR BASIN ATTAINMENT STATUS BY POLLUTANT	9
TABLE 2.3: SCREENING LEVEL THRESHOLDS FOR CRITERIA POLLUTANTS.....	11
TABLE 2.4: THREE-YEAR AMBIENT AIR QUALITY SUMMARY NEAR THE PROJECT SITE	12
TABLE 3.1: EXPECTED CONSTRUCTION EQUIPMENT	16
TABLE 3.1 CONT.: EXPECTED CONSTRUCTION EQUIPMENT	17
TABLE 4.1: EXPECTED CONSTRUCTION EMISSIONS SUMMARY – POUNDS PER DAY	19
TABLE 4.2: EXPECTED SUMMER DAILY POLLUTANT GENERATION	20
TABLE 4.3: EXPECTED WINTER DAILY POLLUTANT GENERATION	21

Appendix

CALEEMOD	25
SCREEN3 FOR PM ₁₀	133
HEALTH RISK CALCULATIONS	136

LIST OF ACRONYMS

Air Quality Impact Assessments (AQIA)
Assembly Bill 32 (AB32)
California Air Resource Board (CARB)
California Ambient Air Quality Standards (CAAQS)
California Environmental Quality Act (CEQA)
Carbon Dioxide (CO₂)
Cubic Yards (CY)
Diesel Particulate Matter (DPM)
Environmental Protection Agency (EPA)
EPA Office of Air Quality Planning and Standards (OAQPS)
Hazardous Air Pollutants (HAPs)
Hydrogen Sulfide (H₂S)
International Residential Code (IRC)
Level of Service (LOS)
Low Carbon Fuel Standard (LCFS)
Methane (CH₄)
National ambient air quality standards (NAAQS)
Nitrous Oxide (N₂O)
North County Transit District (NCTD)
Reactive Organic Gas (ROG)
Regional Air Quality Strategy (RAQS)
San Diego Air Basin (SDAB)
San Diego Air Pollution Control District (SDAPCD)
South Coast Air Quality Management District (SCAQMD)
Specific Plan Area (SPA)
State Implementation Plan (SIP)
Toxic Air Contaminants (TACs)
Vehicle Miles Traveled (VMT)

EXECUTIVE SUMMARY

This air quality impact study has been completed to determine the air quality impacts associated with the development of the proposed 39-unit Anza Condominium Project which is located on a 3.2-acre site located at 1118 N. Anza Street within the County of San Diego (County).

All construction phases of the proposed Project are anticipated to start in 2019 and full operations expected in 2021.

Based upon the analysis of construction and operation activities for the proposed Project, direct operational or direct construction impacts would be less than significant.

Per discussions with the project applicant, the applicant is fully committed to implementing Tier IV construction equipment as a design feature during all phases of the grading and construction process. Using Tier IV equipment was found to produce health risk impacts of less than 10 in one million exposed which would not be considered a significant impact under CEQA.

The project would likely generate short term odors from temporary construction equipment such as paving equipment. Since odors from this equipment would be short term, no significant odor impacts would be expected. Also, the project would not produce Long term odors and would therefore not produce long term significant odor impacts.

The proposed Project would not be expected to generate cumulative construction impacts. Operationally, the Project would not generate any significant direct impacts. Furthermore, the Project proposes to construct 39 units on the 3.2 acres site which would have a density of 12.48 units per acre. The Project site has a land use of VR-15 which allows 15 units per acre. Based on this, the Project would be considered less intense than would be allowed under the County General Plan. Since the proposed use is less intense than allowed by the County, the Project would be consistent with the Regional Air Quality Strategy (RAQS) and State Implementation Plan (SIP).

For reference a list of design features are shown below and are conditions of this project:

1. All diesel Construction equipment shall be Tier IV rated and shall be fitted with diesel particulate filters.
2. All lighting both indoor and outdoor within the residential development shall be LED.
3. Fireplaces shall not be included within the design.

1.0 INTRODUCTION

1.1 Purpose of this Study

The purpose of this Air Quality study is to determine potential air quality impacts (if any) that may be created by construction, area or operational emissions (short term or long term) from the proposed Project. Should impacts be determined, the intent of this study would be to recommend suitable mitigation measures to reduce impacts to the extent feasible.

1.2 Project Location

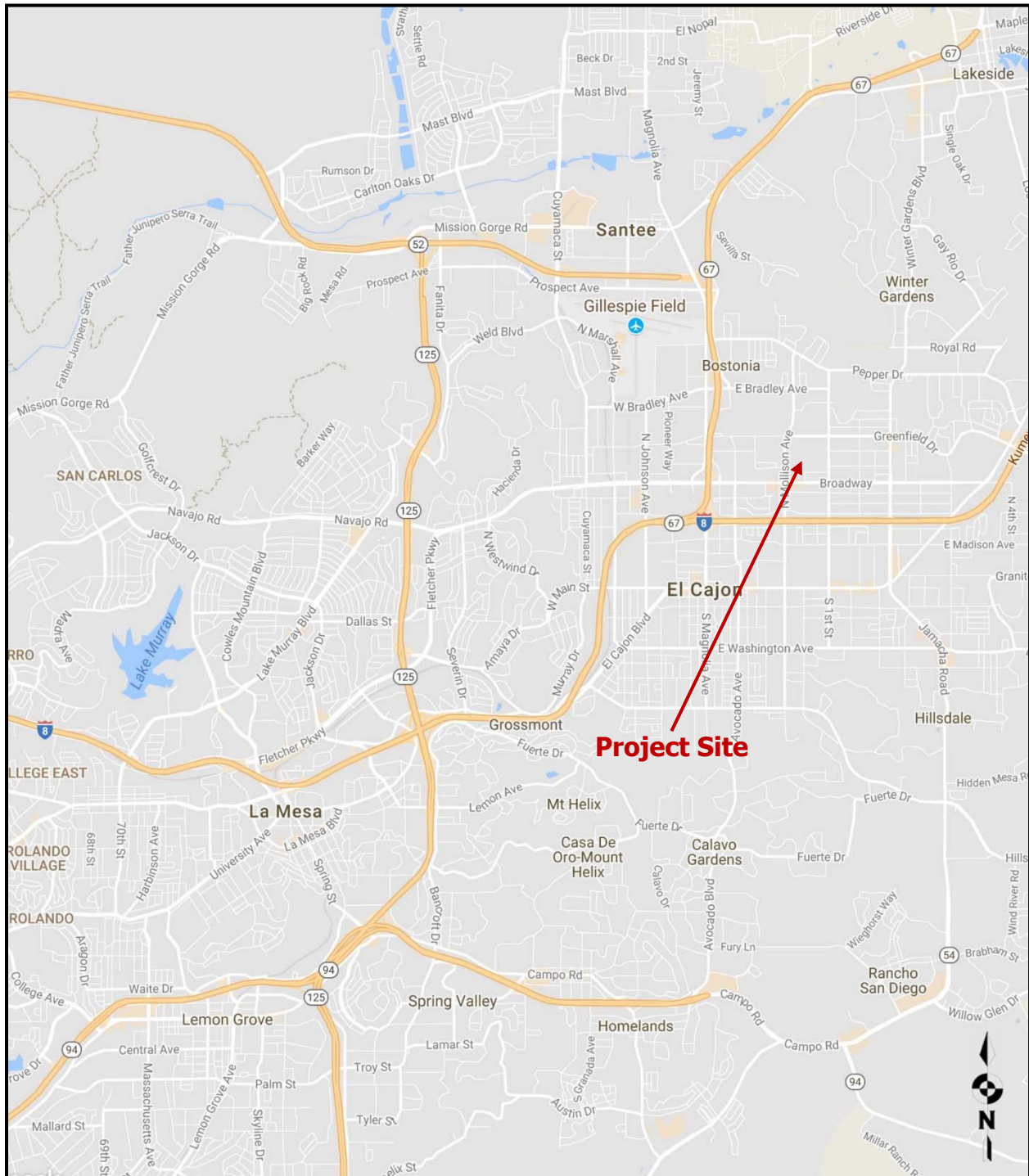
The proposed 39-unit two-story townhome style condominium Project is located on a 3.2-acre site located at 1118 N. Anza Street within the Bostonia community of the County. The Project is located at 32° 48' 37" N and 116° 56' 56" W, north of Broadway between N. Mollison Avenue and N. 1st Street approximately one-half mile north of Interstate-8. The existing site has four occupied residential structures onsite. A general Project vicinity map is shown in Figure 1–A on the following page.

1.3 Project Description

The applicant proposes the processing of a Tentative Subdivision Map and Rezone in order to construct a 39-unit multi-family two-story townhome development and associated improvements. The Project will require a Tentative Subdivision Map and Rezone. The Rezone is required to change the Building Type from the current "F" designation to a proposed "K" designation to allow for multi-dwelling units on the same lot. The existing RV Use Regulation allow for Multi- and Variable Family residential, and the existing General Plan Land Use Designation VR-15 allows for 15 dwelling units per acre (du/ac). The density proposed with the Project is 12.28 du/ac which is less than the allowed density per the General Plan. The Project site plan is shown in Figure 1-B on page 3 of this report.

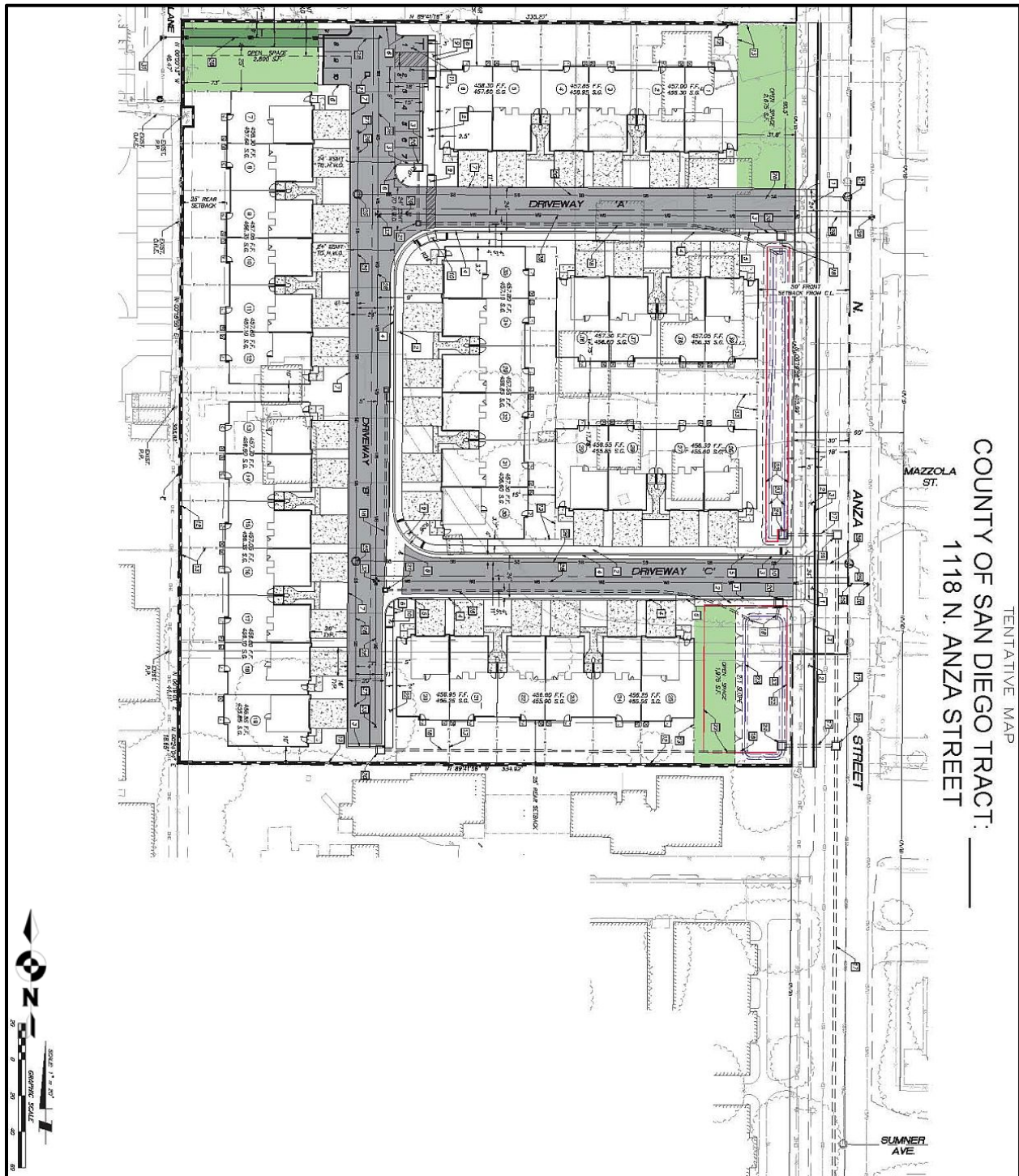
Construction of the Project would be expected to begin with demolition of the existing residential structures followed by grading, utility trenching and building. Demolition would be expected to start in 2019 and completion of construction would be expected by mid to late 2020. Full buildout and full operations would be expected in 2021. Construction design features which will be implemented on this project would be to utilize Tier IV United States Environmental Protection Agency (U.S. EPA) /California Air Resources Board (CARB)-certified construction equipment for all diesel construction equipment used onsite during construction or grading. Project specific design features would include both indoor and outdoor LED lighting throughout the Project and none of the residential units would include fireplaces.

Figure 1-A: Project Vicinity Map



Source: (Google, 2018)

Figure 1-B: Proposed Project Site Layout



Source: (SB&O, Inc., 2018)

2.0 EXISTING ENVIRONMENTAL SETTING

2.1 Existing Setting

The existing site has four single family residential structures onsite which will be demolished as part of the Project. The Property has a General Plan Regional Category designation of VR-15 which allows for 15 units per acre. The Project proposes 12.48 units per acre though seeks approval to change the designator from "F" to "K" which would allow for multi-family units onsite. Land uses sharing property lines with the proposed project include both single and multi-family residential to the adjacent north as well as a church facility to the west. Elevations onsite are relatively flat at roughly 451 feet above mean sea level.

2.2 Climate and Meteorology

Climate within the San Diego Air Basin (SDAB) area often varies dramatically over short geographical distances with cooler temperatures on the western coast gradually warming to the east as prevailing winds from the west heat up. Most of southern California is dominated by high-pressure systems for much of the year, which keeps San Diego mostly sunny and warm. Typically, during the winter months, the high-pressure system drops to the south and brings cooler, moister weather from the north. It is common for inversion layers to develop within high-pressure areas, which mostly define pressure patterns over the SDAB. These inversions are caused when a thin layer of the atmosphere increases in temperature with height. An inversion acts like a lid preventing vertical mixing of air through convective overturning.

Meteorological trends within the El Cajon area generally show daytime highs ranging between 69°F in the winter to approximately 89°F in the summer with August usually being the hottest month. Median temperatures range from approximately 56°F in the winter to approximately 77°F in the summer. Precipitation is generally about 12.4 inches per year (WRCC, 2016). Prevailing wind patterns for the area vary during any given month during the year and also vary depending on the time of day or night. The predominant pattern though throughout the year is usually from the west or westerly (WRCC, 2018).

2.3 Regulatory Standards

2.3.1 Federal Standards and Definitions

The Federal Air Quality Standards were developed per the requirements of The Federal Clean Air Act, which is a federal law that was passed in 1970 and further amended in 1990. This law provides the basis for the national air pollution control effort. An important element of

the act included the development of national ambient air quality standards (NAAQS) for major air pollutants.

The Clean Air Act established two types of air quality standards otherwise known as primary and secondary standards. **Primary Standards** set limits for the intention of protecting public health, which includes sensitive populations such as asthmatics, children and elderly. **Secondary Standards** set limits to protect public welfare to include the protection against decreased visibility, damage to animals, crops, vegetation and buildings.

The EPA Office of Air Quality Planning and Standards (OAQPS) has set NAAQS for principal pollutants, which are called "criteria" pollutants. These pollutants are defined below:

1. **Carbon Monoxide (CO):** *is a colorless, odorless, and tasteless gas and is produced from the partial combustion of carbon-containing compounds, notably in internal-combustion engines. Carbon monoxide usually forms when there is a reduced availability of oxygen present during the combustion process. Exposure to CO near the levels of the ambient air quality standards can lead to fatigue, headaches, confusion, and dizziness. CO interferes with the blood's ability to carry oxygen.*
2. **Lead (Pb):** *is a potent neurotoxin that accumulates in soft tissues and bone over time. The major sources of lead emissions have historically been motor vehicles (such as cars and trucks) and industrial sources. Because lead is only slowly excreted, exposures to small amounts of lead from a variety of sources can accumulate to harmful levels. Effects from inhalation of lead near the level of the ambient air quality standard include impaired blood formation and nerve conduction. Lead can adversely affect the nervous, reproductive, digestive, immune, and blood-forming systems. Symptoms can include fatigue, anxiety, short-term memory loss, depression, weakness in the extremities, and learning disabilities in children.*
3. **Nitrogen Dioxide (NO₂):** *is a reactive, oxidizing gas capable of damaging cells lining the respiratory tract and is one of the nitrogen oxides emitted from high-temperature combustion, such as those occurring in trucks, cars, power plants, home heaters, and gas stoves. In the presence of other air contaminants, NO₂ is usually visible as a reddish-brown air layer over urban areas. NO₂ along with other traffic-related pollutants is associated with respiratory symptoms, respiratory illness and respiratory impairment. Studies in animals have reported biochemical, structural, and cellular changes in the lung when exposed to NO₂ above the level of the current state air quality standard. Clinical studies of human subjects suggest that NO₂ exposure to levels near the current standard may worsen the effect of allergens in allergic asthmatics, especially in children.*
4. **Particulate Matter (PM₁₀ or PM_{2.5}):** *is a complex mixture of tiny particles that consists of dry solid fragments, solid cores with liquid coatings, and small droplets of liquid. These particles vary in shape, size and chemical composition, and can be made up of multiple materials such as metal, soot, soil, and dust. PM₁₀ particles are 10 microns (µm) or less and PM_{2.5} particles are 2.5 (µm) or less. These particles can contribute significantly to regional haze and reduction of visibility in California. Exposure to PM levels exceeding current air quality standards increases the risk of allergies such as asthma and respiratory illness.*
5. **Ozone (O₃):** *is a highly oxidative unstable gas capable of damaging the linings of the respiratory tract. This pollutant forms in the atmosphere through reactions between chemicals directly emitted from vehicles, industrial plants, and many other sources. Exposure to ozone above ambient air quality standards can lead to human health effects such as lung inflammation, tissue damage and impaired lung functioning. Ozone can also damage materials such as rubber, fabrics and plastics.*

6. **Sulfur Dioxide (SO₂):** *is a gaseous compound of sulfur and oxygen and is formed when sulfur-containing fuel is burned by mobile sources, such as locomotives, ships, and off-road diesel equipment. SO₂ is also emitted from several industrial processes, such as petroleum refining and metal processing. Effects from SO₂ exposures at levels near the one-hour standard include bronchoconstriction accompanied by symptoms, which may include wheezing, shortness of breath and chest tightness, especially during exercise or physical activity. Children, the elderly, and people with asthma, cardiovascular disease or chronic lung disease (such as bronchitis or emphysema) are most susceptible to these symptoms. Continued exposure at elevated levels of SO₂ results in increased incidence of pulmonary symptoms and disease, decreased pulmonary function, and increased risk of mortality.*

2.3.2 State Standards and Definitions

CARB sets the laws and regulations for air quality on the state level. The California Ambient Air Quality Standards (CAAQS) is similar to the NAAQS and also restricts four additional contaminants. Table 2.1 on the following page identifies both the NAAQS and CAAQS. The additional contaminants as regulated by the CAAQS are defined below:

1. **Visibility Reducing Particles:** *Particles in the Air that obstruct the visibility.*
2. **Sulfates:** *are salts of Sulfuric Acid. Sulfates occur as microscopic particles (aerosols) resulting from fossil fuel and biomass combustion. They increase the acidity of the atmosphere and form acid rain.*
3. **Hydrogen Sulfide (H₂S):** *is a colorless, toxic and flammable gas with a recognizable smell of rotten eggs or flatulence. H₂S occurs naturally in crude petroleum, natural gas, volcanic gases, and hot springs. Usually, H₂S is formed from bacterial breakdown of organic matter. Exposure to low concentrations of hydrogen sulfide may cause irritation to the eyes, nose, or throat. It may also cause difficulty in breathing for some asthmatics. Brief exposures to high concentrations of hydrogen sulfide (greater than 500 Parts per Million (ppm)) can cause a loss of consciousness and possibly death.*
4. **Vinyl Chloride:** *also known as chloroethene and is a toxic, carcinogenic, colorless gas with a sweet odor. It is an industrial chemical mainly used to produce its polymer, polyvinyl chloride (PVC).*

Table 2.1: Ambient Air Quality Standards

Ambient Air Quality Standards						
Pollutant	Average Time	California Standards ¹		Federal Standards ²		
		Concentration ³	Method ⁴	Primary ^{3,5}	Secondary ^{3,6}	Method ⁷
Ozone (O ₃) ⁸	1 Hour	0.09 ppm (180 µg/m3)	Ultraviolet Photometry	-	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m3)		0.070 ppm (137 µg/m3)		
Respirable Particulate Matter (PM10) ⁹	24 Hour	50 µg/m3	Gravimetric or Beta Attenuation	150 µg/m3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m3		-		
Fine Particulate Matter (PM2.5) ⁹	24 Hour	No Separate State Standard		35 µg/m3	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m3	Gravimetric or Beta Attenuation	12.0 µg/m3		
Carbon Monoxide (CO)	8 hour	9.0 ppm (10mg/m3)	Non-Dispersive Infrared Photometry (NDIR)	9 ppm (10 mg/m3)	-	Non-Dispersive Infrared Photometry
	1 hour	20 ppm (23 mg/m3)		35 ppm (40 mg/m3)		
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m3)		-		
Nitrogen Dioxide (NO ₂) ¹⁰	Annual Arithmetic Mean	0.030 ppm (57 µg/m3)	Gas Phase Chemiluminescence	0.053 ppm (100 µg/m3) ⁸	Same as Primary Standard	Gas Phase Chemiluminescence
	1 Hour	0.18 ppm (339 µg/m3)		0.100 ppm ⁸ (188/ µg/m3)		
Sulfur Dioxide (SO ₂) ¹¹	Annual Arithmetic Mean	-	Ultraviolet Fluorescence	0.030 ppm ¹⁰ (for Certain Areas)	-	Ultraviolet Fluorescence; Spectrophotometry (Pararosaniline Method) ⁹
	24 Hour	0.04 ppm (105 µg/m3)		0.14 ppm ¹⁰ (for Certain Areas) (See Footnote 9)	-	
	3 Hour	-		-	0.5 ppm (1300 µg/m3)	
	1 Hour	0.25 ppm (655 µg/m3)		75 ppb (196 µg/m3)	-	
Lead ^{12,13}	30 Day Average	1.5 µg/m3	Atomic Absorption	-	Same as Primary Standard	High Volume Sampler and Atomic Absorption
	Calendar Quarter	-		1.5 µg/m3		
	Rolling 3-Month Average	-		0.15 µg/m3		
Visibility Reducing Particles	8 Hour	See footnote 14				
Sulfates	24 Hour	25 µg/m3	Ion Chromatography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m3)	Ultraviolet Fluorescence			
Vinyl Chloride ¹²	24 Hour	0.01 ppm (26 µg/m3)	Gas Chromatography			

1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m3 is equal to or less than one. For PM2.5, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.

3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

4. Any equivalent procedure which can be shown to the satisfaction of the CARB to give equivalent results at or near the level of the air quality standard may be used.

5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.

6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

7. Reference method as described by the EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the EPA.

8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.

9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 µg/m3 to 12.0 µg/m3 . The existing national 24- hour PM2.5 standards (primary and secondary) were retained at 35 µg/m3 , as was the annual secondary standard of 15 µg/m3 . The existing 24-hour PM10 standards (primary and secondary) of 150 µg/m3 also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.

10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.

11. On June 2, 2010, a new 1-hour SO2 standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO2 national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

12. The CARB has identified lead and vinyl chloride as "toxic air contaminants" with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 µg/m3 as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.

14. In 1989, the CARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

Source: (California Air Resources Board, 5/4/2016)

2.3.3 Regional Standards

The State of California has 35 specific air districts, which are each responsible for ensuring that the criteria pollutants are below the NAAQS and CAAQS. California Air basins that exceed either the NAAQS or the CAAQS for any criteria pollutants are designated as “non-attainment areas” for that pollutant. Currently, there are 15 non-attainment areas for the federal ozone standard and two non-attainment areas for the PM_{2.5} standard and many areas are in non-attainment for PM₁₀ as well. The state therefore created the California State Implementation Plan (SIP), which is designed to provide control measures needed for California Air basins to attain ambient air quality standards.

The San Diego Air Pollution Control District (SDAPCD) is the government agency which regulates sources of air pollution within County. Therefore, the SDAPCD developed a Regional Air Quality Strategy (RAQS) to provide control measures to try to achieve attainment status for state ozone standards with control measures focused on Volatile Organic Compounds (VOCs) and oxides of nitrogen (NOX). Currently, San Diego is in “non-attainment” status for federal and state O₃ and State PM₁₀, PM_{2.5}. An attainment plan is available for O₃. The RAQS was adopted in 1992 and has been updated as recently as 2016 which was the latest update incorporating minor changes to the prior 2009 update.

The 2016 update mostly summarizes how the 2009 update has lowered NOX and VOCs emissions which reduces ozone and clarifies and enhances emission reductions by introducing for discussion three new VOC and four new NOX reduction measures. NO_x and VOCs are precursors to the formation of ozone in the atmosphere. The criteria pollutant standards are generally attained when each monitor within the region has had no exceedances during the previous three calendar years. A complete listing of the current attainment status with respect to both federal and state nonattainment status by pollutants for County is shown in Table 2.2 on the following page.

The RAQS is largely based on population predictions by the San Diego Association of Governments (SANDAG). Projects that produce less growth than predicted by SANDAG would generally conform to the RAQS. Projects that create more growth than projected by SANDAG may create a significant impact if the project produces unmitigable air quality emissions or if the project produces cumulative impacts.

Table 2.2: San Diego County Air Basin Attainment Status by Pollutant

San Diego County Air Basin Attainment Status by Pollutant			
Pollutant	Average Time	California Standards	Federal Standards
Ozone (O ₃)	1 Hour	Non-attainment	No Federal Standard
	8 Hour	Non-attainment	Non-attainment
Respirable Particulate Matter (PM ₁₀)	24 Hour	Non-attainment	Unclassified ¹
	Annual Arithmetic Mean	Non-attainment	Unclassified ²
Fine Particulate Matter PM _{2.5}	24 Hour	No State Standard	Attainment
	Annual Arithmetic Mean	Non-attainment	Attainment
Carbon Monoxide (CO)	8 hour	Attainment	Maintenance Area ³
	1 hour		
Nitrogen Dioxide (NO ₂)	Annual Arithmetic Mean	No State Standard	Attainment
	1 Hour	Attainment	No Federal Standard
Sulfur Dioxide (SO ₂)	Annual Arithmetic Mean	No State Standard	Attainment
	24 Hour	Attainment	Attainment
	1 Hour	Attainment	No Federal Standard
Lead	30 Day Average	Attainment	No Federal Standard
	Calendar Quarter	No State Standard	Attainment
Visibility Reducing Particles	8 Hour (10AM to 6PM, PST)	Unclassified	No Federal Standard
Sulfates	24 Hour	Attainment	No Federal Standard
Hydrogen Sulfide	1 Hour	Unclassified	No Federal Standard
1. Data reflects status as of December 2017 2. Unclassified; indicates data are not sufficient for determining attainment or nonattainment. 3. Maintenance Area (defined by U.S. Department of Transportation) is any geographic region of the United States previously designated nonattainment pursuant to the CAA Amendments of 1990 and subsequently redesignated to attainment subject to the requirement to develop a maintenance plan under section 175A of the CAA, as amended.			

2.4 California Environmental Quality Act (CEQA) Significance Thresholds

The California Environmental Quality Act has provided a checklist to identify the significance of air quality impacts. These guidelines are found in Appendix G of the CEQA guidelines and are as follows:

AIR QUALITY -- Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the Project:

- A:* Conflict with or obstruct implementation of the San Diego Regional Air Quality Strategy (RAQS) or applicable portions of the State Implementation Plan (SIP)?
- B:* Result in emissions that would violate any air quality standard or contribute substantially to an existing or projected air quality violation?

- C:* Result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable Federal or State ambient air quality standard (PM10, PM2.5 or exceed quantitative thresholds for O3 precursors, NOX and VOCs)?
- D:* Expose sensitive receptors (including, but not limited to, schools, hospitals, residences, resident care facilities, or day-care centers) to substantial pollutant concentrations?
- E:* Create objectionable odors affecting a substantial number of people?

2.5 SDAPCD Rule 20.2 – Air Quality Impact Assessment Screening Thresholds

The SDAPCD has established thresholds in Rule 20.2 for new or modified stationary sources. The County's Guidelines for Determining Significance and Report Format and Content Requirements incorporate screening level thresholds from Rule 20.2 for use in all County related Air Quality Impact Assessments (AQIA) and for determining CEQA air quality impacts (County of San Diego, 2007). These screening criteria can be used to demonstrate that a project's total emissions would not result in a significant impact as defined by CEQA. Also, since SDAPCD does not have AQIA threshold for VOCs, it is acceptable to use the Coachella Valley VOC threshold from South Coast Air Quality Management District. Should emissions be found to exceed these thresholds, additional modeling is required to demonstrate that the project's total air quality impacts are below the state and federal ambient air quality standards. These screening thresholds for construction and daily operations are shown in Table 2.3 on the following page.

Non Criteria pollutants such as Hazardous Air Pollutants (HAPs) or Toxic Air Contaminants (TACs) are also regulated by the SDAPCD. Rule 1200 (Toxic Air Contaminants - New Source Review) adopted on June 12, 1996, requires evaluation of potential health risks for any new, relocated, or modified emission unit which may increase emissions of one or more toxic air contaminants. The rule requires that projects that propose to increase cancer risk to between 1 and 10 in one million need to implement toxics best available control technology (T-BACT) or impose the most effective emission limitation, emission control device or control technique to reduce the cancer risk. At no time shall the project increase the incremental cancer risk to over 10 in one million or a health hazard index (chronic and acute) greater than one since risks above. Projects creating cancer risks less than one in one million are not required to implement T-BACT technology.

The U.S. EPA uses the term VOC and the CARB's Emission Inventory Branch (EIB) uses the term Reactive Organic Gases (ROG) to essentially define the same thing. There are minor deviations between compounds that define each term however for purposes of this study we

will assume they are essentially the same due to the fact SCAQMD interchanges these words and because Air Quality models directly calculates ROG in place of VOC.

Table 2.3: Screening Level Thresholds for Criteria Pollutants

Pollutant	Total Emissions (Pounds per Day)
Construction Emissions	
Respirable Particulate Matter (PM ₁₀ and PM _{2.5})	100 and 55
Nitrogen Oxide (NO _x)	250
Sulfur Oxide (SO _x)	250
Carbon Monoxide (CO)	550
Volatile Organic Compounds (VOCs)	75
Reactive Organic Gases (ROG) SCAQMD	75
Operational Emissions	
Respirable Particulate Matter (PM ₁₀ and PM _{2.5})	100 and 55
Nitrogen Oxide (NO _x)	250
Sulfur Oxide (SO _x)	250
Carbon Monoxide (CO)	550
Lead and Lead Compounds	3.2
Volatile Organic Compounds (VOCs)	75
Reactive Organic Gases (ROG) SCAQMD	75

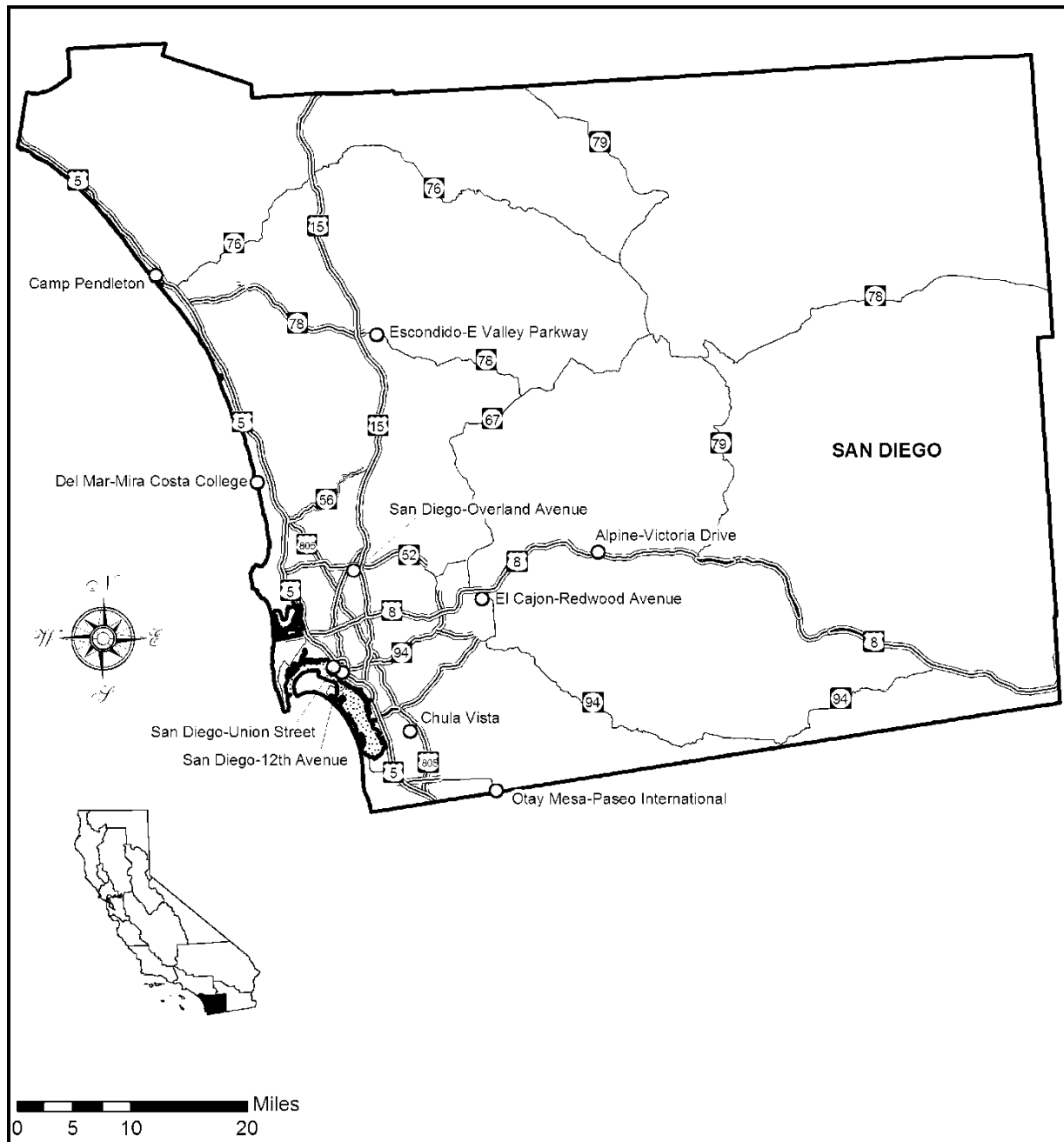
2.6 Local Air Quality

Criteria pollutants are measured continuously throughout the San Diego Air Basin. This data is used to track ambient air quality patterns throughout the County. As mentioned earlier, this data is also used to determine attainment status when compared to the NAAQS and CAAQS. The SDAPCD is responsible for monitoring and reporting monitoring data (SDAPCD, 2018). The District operates monitoring sites, which collect data on criteria pollutants. The proposed development Project is closest to the El Cajon monitoring location roughly 4.3 miles to the northeast of the Project site. Table 2.4 on the following page identifies the criteria pollutants monitored at the aforementioned station.

Table 2.4: Three-Year Ambient Air Quality Summary near the Project Site

Pollutant	Closest Recorded Ambient Monitoring Site	Averaging Time	CAAQS	NAAQS	2015	2016	2017	2017 Days Exceeded
O ₃ (ppm)	El Cajon- Redwood Avenue	1 Hour	0.09 ppm	-	0.08	0.10	0.0	1
		8 Hour	0.070 ppm	0.070 ppm	0.07	0.08	0.08	9
PM ₁₀ (µg/m3)		24 Hour	50 µg/m3	150 µg/m3	48	43	50	-
		Annual Arithmetic Mean	20 µg/m3	-	21.9	22.6	22.5	-
PM _{2.5} (µg/m ³)		24 Hour	-	35 µg/m3	24.7	23.9	31.8	-
		Annual Arithmetic Mean	12 µg/m3	12 µg/m3	8.2	9.3	9.5	-
NO ₂ (ppm)		Annual Arithmetic Mean	0.030 ppm	0.053 ppm	0.010	0.009	0.010	-
		1 Hour	0.18 ppm	0.10 ppm	0.059	0.057	0.045	-
CO (ppm)		1 Hour	20 ppm	35 ppm	1.4	1.7	1.5	-
		8 Hour	9 ppm	9 ppm	1.1	1.3	1.4	-

Figure 2-A: Ambient Air Quality Monitoring Stations within SDAB – CARB



3.0 METHODOLOGY

3.1 Construction Emissions Calculations

Air Quality impacts related to construction and daily operations were calculated using the latest CalEEMod 2016.3.2 air quality model, which was developed by BREEZE Software for South Coast Air Quality Management District (SCAQMD) in 2017. The construction module in CalEEMod is used to calculate the emissions associated with the construction of the Project and uses methodologies presented in the US EPA AP-42 document with emphasis on Chapter 11.9. The CalEEMod input/output model is shown in **Attachment A** to this report.

The SCREEN3 dispersion model will be used to determine the concentration for air pollutants at any location near the pollutant generator. Additionally, the model will predict the maximum exposure distance and concentrations. The notable toxic air contaminant from construction is diesel exhaust since exposure to diesel exhaust is known to cause cancer and acute and chronic health effects. Diesel exhaust emissions can be estimated using the annual PM₁₀ exhaust emissions from onsite construction operations obtained from the annual CalEEMod model output by summing each onsite source for the construction duration. The SCREEN3 input/output file for the proposed Project is shown in Attachment B at the end of this report.

Once the dispersed concentrations of diesel particulates are estimated in the surrounding air, they are used to evaluate estimated exposure to people. Exposure is evaluated by calculating the dose in milligrams per kilogram body weight per day (mg/kg/d). For residential exposure, the breathing rates are determined for specific age groups, so inhalation dose (Dose-air) is calculated for each of these age groups, 3rd trimester, 0<2, 2<9, 2<16, 16<30 and 16-70 years. The following algorithms calculate this dose for exposure through the inhalation pathways. The worst case cancer risk dose calculation is defined in Equation 1 below (OEHHA, 2015):

$$\text{Equation 1} \quad \text{Dose}_{\text{air}} = C_{\text{air}} * (BR/BW) * A * EF * (1 \times 10^{-6})$$

Dose _{air}	=	Dose through inhalation (mg/kg/d)
C _{air}	=	Concentration in air (µg/m ³) Annual average DPM concentration in µg/m ³ - SCREEN3 predicts a 1-hr concentration and is corrected to an annual average by multiplying the 1-hr average by 0.08 (US EPA, 1992)
BR/BW	=	Daily breathing rate normalized to body weight (L/kg BW-day). See Table I.2 for the daily breathing rate for each age range.
A	=	Inhalation absorption factor (assumed to be 1)
EF	=	Exposure frequency (unitless, days/365 days)
1x10 ⁻⁶	=	Milligrams to micrograms conversion (10 ⁻³ mg/ µg), cubic meters to liters conversion (10 ⁻³ m ³ /l)

Cancer risk is calculated by multiplying the daily inhalation or oral dose, by a cancer potency factor, the age sensitivity factor, the frequency of time spent at home and the exposure duration divided by averaging time, to yield the excess cancer risk. As described below, the excess cancer risk is calculated separately for each age grouping and then summed to yield cancer risk for any given location. Specific factors as modeled are shown within the Project models attached to this report. The worst case cancer risk calculation is defined in Equation 2 below (OEHHA, 2015):

Equation 2
$$\text{RISK}_{\text{inh-res}} = \text{DOSE}_{\text{air}} \times \text{CPF} \times \text{ASF} \times \text{ED/AT} \times \text{FAH}$$

RISK _{inh-res}	=	Residential inhalation cancer risk
DOSE _{air}	=	Daily inhalation dose (mg/kg-day)
CPF	=	Inhalation cancer potency factor (mg/kg-day ⁻¹)
ASF	=	Age sensitivity factor for a specified age group (unitless)
ED	=	Exposure duration (in years) for a specified age group
AT	=	Averaging time for lifetime cancer risk (years)
FAH	=	Fraction of time spent at home (unitless)

OEHHA recommends that an exposure duration (residency time) of 30 years be used to estimate individual cancer risk for the Maximally Exposed Individual Resident (MEIR). OEHHA also recommends that the 30-year exposure duration be used as the basis for public notification and risk reduction audits and plans.

Exposure durations of 9-years and 70-years are also recommended to be evaluated for the MEIR to show the range of cancer risk based on residency periods. If a facility is notifying the public regarding cancer risk, the 9-and 70-year cancer risk estimates are useful for people who have resided in their current residence for periods shorter and longer than 30 years.

Non-Cancer risks or risks defined as chronic or acute. With respect to DPM only chronic risks are calculated and are determined by the hazard index. To calculate hazard index, DPM concentration is divided by its chronic Reference Exposure Levels (REL). Where the total equals or exceeds one, a health hazard is presumed to exist. RELs are published by the Office of Environmental Health Hazard Assessment (OEHHA, 2015). Diesel Exhaust has a REL of 5 µg/m³ and targets the respiratory system.

3.2 Construction Assumptions

The Project construction dates are based on a construction kickoff starting early 2019 with construction ending sometime mid 2020. The proposed Project site would demolish roughly

10,500 SF of existing residential buildings and sheds onsite. The Project would then grade the site to allow for 39 condominium units. After grading, trenching would be necessary to install new infrastructure and drainage. Once earthwork activities are completed, paving and building construction activities would follow. Also, as noted earlier, the project boundary shares property lines with sensitive receptors to include residential and a church use. The project applicant is committed however to ensuring construction air quality risks are below significant and has planned to utilize Tier IV construction equipment onsite during all phases of grading and construction.

CalEEMod 2016.3.2 was utilized for all calculations. Also, CalEEMod has been updated to reflect SDAPCD Rule 67 paint VOC limits as well as all diesel equipment during grading and construction being Tier IV rated to reflect the applicant's design features. Table 3.1 shows the expected timeframes for the construction processes for all the Project infrastructure, facilities, improvements and commercial structures at the proposed Project location, as well as the expected number of pieces of equipment. It should be noted that construction earthwork activities will be balanced.

Table 3.1: Expected Construction Equipment

Equipment Identification	Proposed Start	Proposed Complete	Quantity
Demolition	1/1/2019	1/28/2019	
Concrete/Industrial Saws			1
Excavators			2
Rubber Tired Dozers			1
Grading	1/29/2019	2/14/2019	
Graders			1
Rubber Tired Dozers			1
Tractors/Loaders/Backhoes			2
Trenching	2/15/2019	3/14/2019	
Excavators			1
Tractors/Loaders/Backhoes			1
Trenchers			1
Paving	3/15/2019	4/9/2019	
Cement and Mortar Mixers			1
Pavers			1
Paving Equipment			1
Rollers			2
Tractors/Loaders/Backhoes			1
This equipment list is based upon equipment inventory within CalEEMod. The quantity and types are based upon assumptions from Projects of similar size and scope in the County.			

Table 3.1 Cont.: Expected Construction Equipment

Equipment Identification	Proposed Start	Proposed Complete	Quantity
Building Construction without Crane	4/10/2019	6/2/2020	
Forklifts			3
Generator Sets			1
Tractors/Loaders/Backhoes			3
Welders			1
Architectural Coating	7/1/2019	6/2/2020	
Air Compressors			1
Building Construction with Crane	10/1/2019	10/28/2019	
Crane			1
This equipment list is based upon equipment inventory within CalEEMod. The quantity and types are based upon assumptions from Projects of similar size and scope in the County of San Diego.			

3.3 Operational Emissions

Currently, the existing site has 4 single family residential units onsite which are currently generating air quality emissions but would no longer once construction of the proposed Project begins, as these residents will be removed. This report does not analyze the existing air quality emissions from these units and would not take credit for any emissions these units would generate. Therefore, operational emissions generated would be disclosed as worst-case.

Once demolition of the existing uses is complete and construction is finalized the proposed Project would transition to an operational phase and begin generating air emissions from daily operations. Operational sources would include area, energy, mobile, solid waste and water uses, which are calculated within CalEEMod. Area Sources include landscaping, consumer products and architectural coatings as part of regular maintenance. Energy sources would be from uses such as electricity and natural gas. Furthermore, a traffic study was prepared for this project and all default trip generation rates were updated to reflect the findings in that report (LOS Engineering Inc., 2018) and were modeled within CalEEMod within an urban environment.

3.4 Micro Scale Operational Emissions

Air pollutant emissions related to Project traffic have the potential to create new, or worsen existing localized air quality violations with respect to carbon monoxide (CO). These increased carbon monoxide "Hot Spots" are determined through the utilization of the Institute of Transportation Studies (ITS) Transportation Project-Level Carbon Monoxide Protocol (University of California, Davis, 1997).

In the event the proposed project traffic adds vehicular trips to either an intersection that operates at Level of Service (LOS) E or F or any intersection where the project trips re-classify the intersection level of service to LOS E or F and when peak-hour trips exceed 3,000 the Project must quantify CO levels (County of San Diego, 2007).

The proposed project traffic study (LOS Engineering Inc., 2018) was reviewed and none of the prerequisites identified above were met. Therefore, no additional analysis is necessary to conclude that the Project action would not create significant CO impacts.

3.5 Odor Impacts (Onsite)

Potential onsite odor generators would include short term construction odors from activities such as paving and possibly painting. Odors created during short term construction activities would most likely be from placing asphalt which has a slight odor from the bitumen and solvents used within hot asphalt. Impacts associated with asphalt operations are short term, less than one month, as shown in Table 3.1 above and are expected to be less than significant. Further discussion of onsite odor impacts is not included in this report.

4.0 FINDINGS

4.1 Construction Findings

Construction emissions in pounds per day from the construction operations and equipment identified in Section 3.2 above is shown in Table 4.1. Based on these numbers, the Project would not exceed County standards and would not require mitigation to comply. In fact, the project's emissions intensity would need to be increased more than 14 times of that proposed to generate significant impacts.

Table 4.1: Expected Construction Emissions Summary – Pounds per Day

Year	ROG	NO _x	CO	SO ₂	PM ₁₀ (Dust)	PM ₁₀ (Exhaust)	PM ₁₀ (Total)	PM _{2.5} (Dust)	PM _{2.5} (Exhaust)	PM _{2.5} (Total)
2019	2.655	3.525	21.467	0.038	6.365	0.017	6.371	3.360	0.017	3.366
2020	2.452	2.630	18.097	0.029	0.306	0.010	0.316	0.082	0.009	0.091
Significance Threshold (lb/day)	75	250	550	250	-	-	100	-	-	55
Impact?	No	No	No	No	-	-	No	-	-	No

4.2 Health Risk

The proposed project will utilize Tier IV construction equipment and will be required to do so as a condition of approval. Based upon the annual air quality modeling results attached to this report, worst-case onsite PM10 from exhaust emissions would cumulatively produce 0.00095 tons over the construction duration of 371-working days) or an average of 8.06×10^{-5} grams/second. The average emission rate over the grading area is 6.22×10^{-9} g/m²/s, which was calculated as follows:

$$\frac{8.06 * 10^{-5} \frac{\text{grams}}{\text{second}}}{3.2 \text{ acres} * 4,046 \frac{\text{meters}^2}{\text{acre}}} = 6.22 * 10^{-9} \frac{\text{grams}}{\text{meters}^2 \text{ second}}$$

Utilizing the SCREEN3 dispersion model, we find that the peak maximum 1-hr concentration is 0.1047 µg/m³ during the worst-case construction period. Converting the peak 1-hr concentration using the 0.08 conversion factor (EPA, 1992) to an annual concentration reduces the concentration to 0.008 µg/m³. Therefore, utilizing the risk equation identified above in section 3.1, the inhalation cancer risk for the point of maximum exposure (89 meters from the boundary) is 1.52 per one million exposed which does not exceed 10 per one million

exposed. It should be noted that the project shares project boundaries with nearby sensitive residential and church facility boundaries. These sensitive receivers would be exposed to cancer risks not to exceed 1.52 per million exposed which is less than significant under CEQA. Based on this, since the Project is fully committed to the utilization of Tier IV equipment with diesel particulate filters, and since all sensitive receptors would be exposed to cancer risks less than 10 per one million exposed, no health risks related to diesel construction equipment during would be expected. The calculations are shown in **Attachment C** to this report.

There are known chronic health risks associated with diesel exhaust which are considered non-cancer risks. These risks are calculated based on methods identified in Section 3.1 of this report. From this we find that the annual concentration of 0.004 $\mu\text{g}/\text{m}^3$ divided by the REL of 5 $\mu\text{g}/\text{m}^3$ yields a Health Hazard Index of 0.0016, which is less than one. Therefore, no non-cancer risks are expected and all health risks are considered less than significant.

4.3 Operational Findings

Project Buildout and full operations are expected in 2021. The Project traffic generation estimates based on the proposed traffic study are 312 trips per day and were modeled as such within an urban environment (LOS Engineering Inc., 2018). Additionally, the model was run for the winter and summer scenarios to determine operational impacts for the first year of operation.

The expected daily pollutant generation can be calculated utilizing the product of the average daily miles traveled and the expected emissions inventory calculated by EMFAC2014; CALCEMOD 2016.3.2 performs this calculation. The daily pollutants calculated for summer and winter are shown in Table 4.2 and 4.3 below and on the following page.

Table 4.2: Expected Summer Daily Pollutant Generation

	ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Area	1.066	0.037	3.225	0.000	0.018	0.018
Energy	0.017	0.142	0.060	0.001	0.012	0.012
Mobile	0.553	2.260	6.542	0.023	1.911	0.523
Total (Unmitigated)	1.635	2.439	9.826	0.024	1.940	0.552
County Thresholds	75	250	550	250	100	55
Significant?	No	No	No	No	No	No
Daily pollutant generation assumes trip distances within CalEEMod The final numbers are all rounded within Excel and are reported as rounded numbers.						

Table 4.3: Expected Winter Daily Pollutant Generation

	ROG	NO_x	CO	SO_x	PM₁₀	PM_{2.5}
Area	1.066	0.037	3.225	0.000	0.018	0.018
Energy	0.017	0.142	0.060	0.001	0.012	0.012
Mobile	0.537	2.326	6.419	0.021	1.911	0.523
Total (Unmitigated)	1.619	2.505	9.704	0.022	1.940	0.552
County Thresholds	75	250	550	250	100	55
Significant?	No	No	No	No	No	No
Daily pollutant generation assumes trip distances within CalEEMod The final numbers are all rounded within Excel and are reported as rounded numbers.						

Based upon these calculations, the proposed Project would not exceed County operational air quality significance thresholds and would not be required to implement mitigation measures to comply with CEQA and County thresholds. The project would have design features to include 100% LED lighting and no fireplaces will be utilized within the design.

4.4 Cumulative Impact Findings

The proposed Project would not generate significant construction or operational impacts as demonstrated within this analysis. It should also be noted that the point of maximum exposure for construction emissions generated offsite would be 89 meters from the project boundary which does include sensitive uses. This means that construction emissions would be the highest at 89 meters from the project site. Based on analysis within this report however, all air quality emissions from the project would yield less than significant impacts.

Cumulative construction impacts would exist when multiple construction projects occur at the same time and when those construction project maximum exposure contours intersect. To illustrate this, if a project was to produce air quality emissions simultaneous to a nearby construction project the addition of both project emissions could exceed significance thresholds. For this project, the construction emissions are well below significance as shown in Table 4.1 above and were found to be at least 14 times lower the respective threshold. If a nearby project was to be under construction at the same time, that project would need to produce significantly more emissions and be relatively close to the proposed project site.

After review of the City of El Cajon's GIS Database (City of El Cajon, 2018), the closest approved projects are Bostonia Residential on Bostonia Street between Broadway and Greenfield Drive located 1,400 meters from the site or nearly 4,600 feet away and a Starbucks located on the corner of Naranca Avenue and North Mollison located 714 meters away or nearly 2,350 feet away. Based on these general project types, it's relatively easy to conclude

that the construction intensity and distance alone would not generate significant cumulative air quality emission impacts. Therefore, cumulative construction impacts would be considered less than significant.

Finally, the proposed project site is subject to the General Plan Land Use Designation Village Residential (VR-15) and is zoned Variable Family Residential (RV). The project will require a Tentative Map and Rezone to subdivide the 3.18 acres site into 39 multi-family two-story townhomes. The proposed Rezone will change the building type designator from "F" to "K" to allow for multi-family dwelling units on the same lot. The project site has a maximum density of 15 du/ac or 47 dwelling units. The project is proposing 12.26 du/ac or 39 dwelling units. Therefore, the Project would be less intensive than the existing General Plan Land Use Designation allows. Given this, all proposed operations would therefore be consistent with both the RAQS and SIP.

4.5 Conclusion of Findings

Based upon the analysis of construction and operation activities for the proposed Project, no direct operational or direct construction impacts would be expected.

As a design feature, the proposed Project would utilize Tier IV Diesel Equipment. Diesel Particulate Matter from the Project was not found to increase cancer risks to greater than 10 per million exposed and would therefore not generate significant health risk impacts.

The proposed Project would not be expected to generate cumulative construction impacts. Operationally, the Project would not generate any significant direct impacts. Also, since the Project would be at a less intensive density than the existing General Plan Land Use Designation allows, the proposed Project would be consistent with the RAQS and SIP and would be considered less than significant under CEQA.

For reference purposes a list of design features is shown below:

1. All diesel Construction equipment shall be Tier IV rated and shall be fitted with diesel particulate filters.
2. All lighting within the residential development shall be LED.
3. Fireplaces shall not be included within the design.

5.0 REFERENCES

- California Air Resources Board. (5/4/2016). *www.arb.ca.gov*. Retrieved from Ambient Air Quality Standards: <http://www.arb.ca.gov/research/aaqs/aaqs2.pdf>
- City of El Cajon. (2018, July). <https://cityofelcajon.maps.arcgis.com/>. Retrieved from <https://cityofelcajon.maps.arcgis.com/apps/MapTour/index.html?appid=38313716efc54ca2a6b1f00b356a3f3d>
- County of San Diego. (2007, March 19). *AQ-Guidelines*. Retrieved from <https://www.sandiegocounty.gov/content/dam/sdc/pds/ProjectPlanning/docs/AQ-Guidelines.pdf>
- EPA, U. (1992). Screening Procedures for Estimating the Air Quality Impact of Stationary Sources. 41 of 93. Retrieved 2018, from https://www3.epa.gov/scram001/guidance/guide/EPA-454R-92-019_OCR.pdf
- Google. (2018). Retrieved 2018, from maps.google.com
- LOS Engineering Inc. (2018). N. Anza Street Multi-Family (39 Units) - Dract Traffic Impact Study.
- OEHHA. (February 2015). *Air Toxics Hot Spots Program - Risk Assessment Guidelines - Guidance Manual for Preparation of Health Risk Assessments*. OEHHA. Retrieved from <https://oehha.ca.gov/air/crn/notice-adoption-air-toxics-hot-spots-program-guidance-manual-preparation-health-risk-0>
- SDAPCD. (2018). *5 Year Summary 2012 - 2016*. Retrieved from https://www.sdapcd.org/content/dam/sdc/apcd/monitoring/5-Year_Air_Quality.pdf
- University of California, Davis for California Department of Transportation. (1997, December). *COProtocol*. Retrieved from http://www.dot.ca.gov/hq/env/air/documents/COProtocol_searchable.pdf
- US EPA. (1992). *Screening Procedures for Estimating the Air Quality Impact of Stationary Sources Revised*. US EPA. Retrieved from http://www.epa.gov/scram001/guidance/guide/EPA-454R-92-019_OCR.pdf
- WRCC. (2018). Retrieved from https://wrcc.dri.edu/Climate/comp_table_show.php?stype=wind_dir_avg

6.0 CERTIFICATIONS

The contents of this report represent an accurate depiction of the air quality environment and impacts within and surrounding the proposed multi-family residential development. This report was prepared utilizing the latest emission rates and reduction methodologies. This report was prepared by Jeremy Loudon; a County approved CEQA Consultant for Air Quality.



Jeremy Loudon, Principal
Ldn Consulting, Inc.
(760) 473-1253
jlouden@ldnconsulting.net

Date November 28, 2018

ATTACHMENT A

CalEEMod

Anza 39 Unit Multi-Family - San Diego County, Summer

Anza 39 Unit Multi-Family
San Diego County, Summer**1.0 Project Characteristics**

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	39.00	Dwelling Unit	3.20	39,000.00	112

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2021
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	525.68	CH4 Intensity (lb/MW hr)	0.021	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Anza 39 Unit Multi-Family - San Diego County, Summer

Project Characteristics - RPS for 2021 included

Land Use - 3.2 acre site

Construction Phase - d

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - ce

Off-road Equipment - CE

Off-road Equipment - ce

Off-road Equipment - ce

Demolition -

Grading - ce

Architectural Coating - rule 67 paint

Vehicle Trips - d

Woodstoves - No hearth installed

Area Coating - Rule 67 Paint

Energy Use - High Efficiency Lighting Installed 100%

Construction Off-road Equipment Mitigation - Tier IV

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Residential_Exterior	250	100
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3

Anza 39 Unit Multi-Family - San Diego County, Summer

tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Anza 39 Unit Multi-Family - San Diego County, Summer

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	18.00	242.00
tblConstructionPhase	NumDays	230.00	300.00
tblConstructionPhase	NumDays	230.00	20.00
tblConstructionPhase	NumDays	8.00	13.00
tblEnergyUse	LightingElect	1,001.10	350.38
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	NumberGas	21.45	0.00
tblFireplaces	NumberNoFireplace	3.90	39.00
tblFireplaces	NumberWood	13.65	0.00
tblGrading	AcresOfGrading	6.50	3.20
tblLandUse	LotAcreage	2.44	3.20

Anza 39 Unit Multi-Family - San Diego County, Summer

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.021
tblProjectCharacteristics	CO2IntensityFactor	720.49	525.68
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblVehicleTrips	HO_TTP	39.60	40.00
tblVehicleTrips	HS_TTP	18.80	18.00
tblVehicleTrips	HW_TTP	41.60	42.00
tblVehicleTrips	ST_TR	5.67	8.00
tblVehicleTrips	SU_TR	4.84	8.00
tblVehicleTrips	WD_TR	5.81	8.00
tblWoodstoves	NumberCatalytic	1.95	0.00
tblWoodstoves	NumberNoncatalytic	1.95	0.00

2.0 Emissions Summary

Anza 39 Unit Multi-Family - San Diego County, Summer

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	4.9247	24.0760	21.1795	0.0375	6.3653	1.4292	7.4778	3.3602	1.3514	4.3838	0.0000	3,649.365 3	3,649.365 3	0.6906	0.0000	3,666.630 7
2020	4.1218	16.6874	17.9077	0.0288	0.3064	1.0377	1.3441	0.0819	0.9863	1.0682	0.0000	2,749.720 2	2,749.720 2	0.5038	0.0000	2,762.313 9
Maximum	4.9247	24.0760	21.1795	0.0375	6.3653	1.4292	7.4778	3.3602	1.3514	4.3838	0.0000	3,649.365 3	3,649.365 3	0.6906	0.0000	3,666.630 7

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	2.6546	3.5253	21.4671	0.0375	6.3653	0.0172	6.3711	3.3602	0.0167	3.3660	0.0000	3,649.365 3	3,649.365 3	0.6906	0.0000	3,666.630 7
2020	2.4520	2.6298	18.0969	0.0288	0.3064	9.6400e-003	0.3160	0.0819	9.3900e-003	0.0913	0.0000	2,749.720 2	2,749.720 2	0.5038	0.0000	2,762.313 9
Maximum	2.6546	3.5253	21.4671	0.0375	6.3653	0.0172	6.3711	3.3602	0.0167	3.3660	0.0000	3,649.365 3	3,649.365 3	0.6906	0.0000	3,666.630 7

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	43.55	84.90	-1.22	0.00	0.00	98.91	24.20	0.00	98.89	36.59	0.00	0.00	0.00	0.00	0.00	0.00

Anza 39 Unit Multi-Family - San Diego County, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0660	0.0372	3.2245	1.7000e-004		0.0178	0.0178		0.0178	0.0178	0.0000	5.7935	5.7935	5.6100e-003	0.0000	5.9339
Energy	0.0166	0.1416	0.0603	9.0000e-004		0.0115	0.0115		0.0115	0.0115		180.7997	180.7997	3.4700e-003	3.3100e-003	181.8741
Mobile	0.5525	2.2596	6.5416	0.0225	1.8922	0.0183	1.9105	0.5057	0.0171	0.5228		2,285.9413	2,285.9413	0.1170		2,288.8650
Total	1.6351	2.4385	9.8264	0.0236	1.8922	0.0475	1.9397	0.5057	0.0463	0.5520	0.0000	2,472.5345	2,472.5345	0.1260	3.3100e-003	2,476.6731

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0660	0.0372	3.2245	1.7000e-004		0.0178	0.0178		0.0178	0.0178	0.0000	5.7935	5.7935	5.6100e-003	0.0000	5.9339
Energy	0.0166	0.1416	0.0603	9.0000e-004		0.0115	0.0115		0.0115	0.0115		180.7997	180.7997	3.4700e-003	3.3100e-003	181.8741
Mobile	0.5525	2.2596	6.5416	0.0225	1.8922	0.0183	1.9105	0.5057	0.0171	0.5228		2,285.9413	2,285.9413	0.1170		2,288.8650
Total	1.6351	2.4385	9.8264	0.0236	1.8922	0.0475	1.9397	0.5057	0.0463	0.5520	0.0000	2,472.5345	2,472.5345	0.1260	3.3100e-003	2,476.6731

Anza 39 Unit Multi-Family - San Diego County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2019	1/28/2019	5	20	
2	Grading	Grading	1/29/2019	2/14/2019	5	13	
3	Utility Trenching and construction	Trenching	2/15/2019	3/14/2019	5	20	
4	Paving	Paving	3/15/2019	4/9/2019	5	18	
5	Building Construction No Crane	Building Construction	4/10/2019	6/2/2020	5	300	
6	Architectural Coating	Architectural Coating	7/1/2019	6/2/2020	5	242	
7	Building ConstructionCrane Usage	Building Construction	10/1/2019	10/28/2019	5	20	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 3.2****Acres of Paving: 0****Residential Indoor: 78,975; Residential Outdoor: 26,325; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Anza 39 Unit Multi-Family - San Diego County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	2	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utility Trenching and construction	Excavators	1	7.00	158	0.38
Utility Trenching and construction	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Utility Trenching and construction	Trenchers	1	7.00	78	0.50
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction No Crane	Forklifts	3	8.00	89	0.20
Building Construction No Crane	Generator Sets	1	8.00	84	0.74
Building Construction No Crane	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction No Crane	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building ConstructionCrane Usage	Cranes	1	7.00	231	0.29

Trips and VMT

Anza 39 Unit Multi-Family - San Diego County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	48.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching and construction	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction No Crane	8	28.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction Crane Use	1	28.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

3.2 Demolition - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5232	0.0000	0.5232	0.0792	0.0000	0.0792			0.0000			0.0000
Off-Road	2.1180	21.0267	14.5127	0.0251		1.0768	1.0768		1.0090	1.0090		2,460.3453	2,460.3453	0.6326		2,476.1610
Total	2.1180	21.0267	14.5127	0.0251	0.5232	1.0768	1.6001	0.0792	1.0090	1.0883		2,460.3453	2,460.3453	0.6326		2,476.1610

Anza 39 Unit Multi-Family - San Diego County, Summer

3.2 Demolition - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0208	0.7209	0.1556	1.9000e-003	0.0419	2.7200e-003	0.0447	0.0115	2.6000e-003	0.0141		207.7135	207.7135	0.0184		208.1730
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0393	0.0274	0.3094	8.7000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		87.0200	87.0200	2.7800e-003		87.0894
Total	0.0601	0.7483	0.4650	2.7700e-003	0.1241	3.3100e-003	0.1274	0.0333	3.1400e-003	0.0364		294.7334	294.7334	0.0212		295.2624

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5232	0.0000	0.5232	0.0792	0.0000	0.0792			0.0000			0.0000
Off-Road	0.2942	1.2749	15.5283	0.0251		5.8800e-003	5.8800e-003		5.8800e-003	5.8800e-003	0.0000	2,460.3453	2,460.3453	0.6326		2,476.1610
Total	0.2942	1.2749	15.5283	0.0251	0.5232	5.8800e-003	0.5291	0.0792	5.8800e-003	0.0851	0.0000	2,460.3453	2,460.3453	0.6326		2,476.1610

Anza 39 Unit Multi-Family - San Diego County, Summer

3.2 Demolition - 2019**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0208	0.7209	0.1556	1.9000e-003	0.0419	2.7200e-003	0.0447	0.0115	2.6000e-003	0.0141		207.7135	207.7135	0.0184		208.1730
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0393	0.0274	0.3094	8.7000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		87.0200	87.0200	2.7800e-003		87.0894
Total	0.0601	0.7483	0.4650	2.7700e-003	0.1241	3.3100e-003	0.1274	0.0333	3.1400e-003	0.0364		294.7334	294.7334	0.0212		295.2624

3.3 Grading - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2831	0.0000	6.2831	3.3384	0.0000	3.3384			0.0000			0.0000
Off-Road	2.0869	23.3288	10.7275	0.0214		1.1120	1.1120		1.0230	1.0230		2,118.1394	2,118.1394	0.6702		2,134.8933
Total	2.0869	23.3288	10.7275	0.0214	6.2831	1.1120	7.3951	3.3384	1.0230	4.3614		2,118.1394	2,118.1394	0.6702		2,134.8933

Anza 39 Unit Multi-Family - San Diego County, Summer

3.3 Grading - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0393	0.0274	0.3094	8.7000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		87.0200	87.0200	2.7800e-003		87.0894
Total	0.0393	0.0274	0.3094	8.7000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		87.0200	87.0200	2.7800e-003		87.0894

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2831	0.0000	6.2831	3.3384	0.0000	3.3384			0.0000			0.0000
Off-Road	0.2616	1.1338	11.4926	0.0214		5.2300e-003	5.2300e-003		5.2300e-003	5.2300e-003	0.0000	2,118.1393	2,118.1393	0.6702		2,134.8933
Total	0.2616	1.1338	11.4926	0.0214	6.2831	5.2300e-003	6.2884	3.3384	5.2300e-003	3.3436	0.0000	2,118.1393	2,118.1393	0.6702		2,134.8933

Anza 39 Unit Multi-Family - San Diego County, Summer

3.3 Grading - 2019**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0393	0.0274	0.3094	8.7000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		87.0200	87.0200	2.7800e-003		87.0894
Total	0.0393	0.0274	0.3094	8.7000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		87.0200	87.0200	2.7800e-003		87.0894

3.4 Utility Trenching and construction - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8119	7.8195	7.1794	0.0102		0.5089	0.5089		0.4681	0.4681		1,008.4559	1,008.4559	0.3191		1,016.4325
Total	0.8119	7.8195	7.1794	0.0102		0.5089	0.5089		0.4681	0.4681		1,008.4559	1,008.4559	0.3191		1,016.4325

Anza 39 Unit Multi-Family - San Diego County, Summer

3.4 Utility Trenching and construction - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0314	0.0219	0.2475	7.0000e-004	0.0657	4.7000e-004	0.0662	0.0174	4.3000e-004	0.0179		69.6160	69.6160	2.2200e-003		69.6716
Total	0.0314	0.0219	0.2475	7.0000e-004	0.0657	4.7000e-004	0.0662	0.0174	4.3000e-004	0.0179		69.6160	69.6160	2.2200e-003		69.6716

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1249	0.5414	7.7045	0.0102		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003	0.0000	1,008.4559	1,008.4559	0.3191		1,016.4325
Total	0.1249	0.5414	7.7045	0.0102		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003	0.0000	1,008.4559	1,008.4559	0.3191		1,016.4325

Anza 39 Unit Multi-Family - San Diego County, Summer

3.4 Utility Trenching and construction - 2019**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0314	0.0219	0.2475	7.0000e-004	0.0657	4.7000e-004	0.0662	0.0174	4.3000e-004	0.0179		69.6160	69.6160	2.2200e-003		69.6716
Total	0.0314	0.0219	0.2475	7.0000e-004	0.0657	4.7000e-004	0.0662	0.0174	4.3000e-004	0.0179		69.6160	69.6160	2.2200e-003		69.6716

3.5 Paving - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0641	10.7918	10.1891	0.0153		0.6248	0.6248		0.5757	0.5757		1,502.9424	1,502.9424	0.4675		1,514.6289
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0641	10.7918	10.1891	0.0153		0.6248	0.6248		0.5757	0.5757		1,502.9424	1,502.9424	0.4675		1,514.6289

Anza 39 Unit Multi-Family - San Diego County, Summer

3.5 Paving - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0589	0.0411	0.4641	1.3100e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		130.5300	130.5300	4.1700e-003		130.6342
Total	0.0589	0.0411	0.4641	1.3100e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		130.5300	130.5300	4.1700e-003		130.6342

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1817	0.7875	11.2066	0.0153		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	1,502.9424	1,502.9424	0.4675		1,514.6289
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.1817	0.7875	11.2066	0.0153		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	1,502.9424	1,502.9424	0.4675		1,514.6289

Anza 39 Unit Multi-Family - San Diego County, Summer

3.5 Paving - 2019**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0589	0.0411	0.4641	1.3100e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		130.5300	130.5300	4.1700e-003		130.6342
Total	0.0589	0.0411	0.4641	1.3100e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		130.5300	130.5300	4.1700e-003		130.6342

3.6 Building Construction No Crane - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9201	15.8227	15.1574	0.0219		1.0671	1.0671		1.0077	1.0077		2,091.7709	2,091.7709	0.4732		2,103.6009
Total	1.9201	15.8227	15.1574	0.0219		1.0671	1.0671		1.0077	1.0077		2,091.7709	2,091.7709	0.4732		2,103.6009

Anza 39 Unit Multi-Family - San Diego County, Summer

3.6 Building Construction No Crane - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0184	0.4960	0.1280	1.1000e-003	0.0271	3.4500e-003	0.0305	7.8000e-003	3.3000e-003	0.0111		118.4067	118.4067	9.1400e-003		118.6352
Worker	0.1099	0.0767	0.8664	2.4500e-003	0.2300	1.6400e-003	0.2317	0.0610	1.5100e-003	0.0625		243.6559	243.6559	7.7800e-003		243.8504
Total	0.1284	0.5727	0.9944	3.5500e-003	0.2571	5.0900e-003	0.2622	0.0688	4.8100e-003	0.0736		362.0626	362.0626	0.0169		362.4856

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2658	1.9659	15.1859	0.0219		4.8800e-003	4.8800e-003		4.8800e-003	4.8800e-003	0.0000	2,091.7709	2,091.7709	0.4732		2,103.6009
Total	0.2658	1.9659	15.1859	0.0219		4.8800e-003	4.8800e-003		4.8800e-003	4.8800e-003	0.0000	2,091.7709	2,091.7709	0.4732		2,103.6009

Anza 39 Unit Multi-Family - San Diego County, Summer

3.6 Building Construction No Crane - 2019**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0184	0.4960	0.1280	1.1000e-003	0.0271	3.4500e-003	0.0305	7.8000e-003	3.3000e-003	0.0111		118.4067	118.4067	9.1400e-003		118.6352
Worker	0.1099	0.0767	0.8664	2.4500e-003	0.2300	1.6400e-003	0.2317	0.0610	1.5100e-003	0.0625		243.6559	243.6559	7.7800e-003		243.8504
Total	0.1284	0.5727	0.9944	3.5500e-003	0.2571	5.0900e-003	0.2622	0.0688	4.8100e-003	0.0736		362.0626	362.0626	0.0169		362.4856

3.6 Building Construction No Crane - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7231	14.4685	14.9976	0.0219		0.9226	0.9226		0.8714	0.8714		2,064.1221	2,064.1221	0.4647		2,075.7402
Total	1.7231	14.4685	14.9976	0.0219		0.9226	0.9226		0.8714	0.8714		2,064.1221	2,064.1221	0.4647		2,075.7402

Anza 39 Unit Multi-Family - San Diego County, Summer

3.6 Building Construction No Crane - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0150	0.4510	0.1149	1.1000e-003	0.0271	2.2100e-003	0.0293	7.8000e-003	2.1100e-003	9.9100e-003		117.6160	117.6160	8.6800e-003		117.8330
Worker	0.1028	0.0692	0.7937	2.3700e-003	0.2300	1.6100e-003	0.2316	0.0610	1.4900e-003	0.0625		235.9692	235.9692	7.0500e-003		236.1453
Total	0.1177	0.5203	0.9086	3.4700e-003	0.2571	3.8200e-003	0.2609	0.0688	3.6000e-003	0.0724		353.5852	353.5852	0.0157		353.9783

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2658	1.9659	15.1859	0.0219		4.8800e-003	4.8800e-003		4.8800e-003	4.8800e-003	0.0000	2,064.1221	2,064.1221	0.4647		2,075.7402
Total	0.2658	1.9659	15.1859	0.0219		4.8800e-003	4.8800e-003		4.8800e-003	4.8800e-003	0.0000	2,064.1221	2,064.1221	0.4647		2,075.7402

Anza 39 Unit Multi-Family - San Diego County, Summer

3.6 Building Construction No Crane - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0150	0.4510	0.1149	1.1000e-003	0.0271	2.2100e-003	0.0293	7.8000e-003	2.1100e-003	9.9100e-003		117.6160	117.6160	8.6800e-003		117.8330
Worker	0.1028	0.0692	0.7937	2.3700e-003	0.2300	1.6100e-003	0.2316	0.0610	1.4900e-003	0.0625		235.9692	235.9692	7.0500e-003		236.1453
Total	0.1177	0.5203	0.9086	3.4700e-003	0.2571	3.8200e-003	0.2609	0.0688	3.6000e-003	0.0724		353.5852	353.5852	0.0157		353.9783

3.7 Architectural Coating - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.0168					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	2.2832	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

Anza 39 Unit Multi-Family - San Diego County, Summer

3.7 Architectural Coating - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0236	0.0164	0.1857	5.2000e-004	0.0493	3.5000e-004	0.0496	0.0131	3.2000e-004	0.0134		52.2120	52.2120	1.6700e-003		52.2537
Total	0.0236	0.0164	0.1857	5.2000e-004	0.0493	3.5000e-004	0.0496	0.0131	3.2000e-004	0.0134		52.2120	52.2120	1.6700e-003		52.2537

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.0168					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	281.4481	281.4481	0.0238		282.0423
Total	2.0465	0.1288	1.8324	2.9700e-003		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	281.4481	281.4481	0.0238		282.0423

Anza 39 Unit Multi-Family - San Diego County, Summer

3.7 Architectural Coating - 2019**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0236	0.0164	0.1857	5.2000e-004	0.0493	3.5000e-004	0.0496	0.0131	3.2000e-004	0.0134		52.2120	52.2120	1.6700e-003		52.2537
Total	0.0236	0.0164	0.1857	5.2000e-004	0.0493	3.5000e-004	0.0496	0.0131	3.2000e-004	0.0134		52.2120	52.2120	1.6700e-003		52.2537

3.7 Architectural Coating - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.0168					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	2.2590	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

Anza 39 Unit Multi-Family - San Diego County, Summer

3.7 Architectural Coating - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0220	0.0148	0.1701	5.1000e-004	0.0493	3.5000e-004	0.0496	0.0131	3.2000e-004	0.0134		50.5648	50.5648	1.5100e-003		50.6026
Total	0.0220	0.0148	0.1701	5.1000e-004	0.0493	3.5000e-004	0.0496	0.0131	3.2000e-004	0.0134		50.5648	50.5648	1.5100e-003		50.6026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.0168					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	281.4481	281.4481	0.0218		281.9928
Total	2.0465	0.1288	1.8324	2.9700e-003		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	281.4481	281.4481	0.0218		281.9928

Anza 39 Unit Multi-Family - San Diego County, Summer

3.7 Architectural Coating - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0220	0.0148	0.1701	5.1000e-004	0.0493	3.5000e-004	0.0496	0.0131	3.2000e-004	0.0134		50.5648	50.5648	1.5100e-003		50.6026
Total	0.0220	0.0148	0.1701	5.1000e-004	0.0493	3.5000e-004	0.0496	0.0131	3.2000e-004	0.0134		50.5648	50.5648	1.5100e-003		50.6026

3.8 Building ConstructionCrane Usage - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4410	5.2561	2.0064	5.0500e-003		0.2228	0.2228		0.2050	0.2050		499.8093	499.8093	0.1581		503.7626
Total	0.4410	5.2561	2.0064	5.0500e-003		0.2228	0.2228		0.2050	0.2050		499.8093	499.8093	0.1581		503.7626

Anza 39 Unit Multi-Family - San Diego County, Summer

3.8 Building ConstructionCrane Usage - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0184	0.4960	0.1280	1.1000e-003	0.0271	3.4500e-003	0.0305	7.8000e-003	3.3000e-003	0.0111		118.4067	118.4067	9.1400e-003		118.6352
Worker	0.1099	0.0767	0.8664	2.4500e-003	0.2300	1.6400e-003	0.2317	0.0610	1.5100e-003	0.0625		243.6559	243.6559	7.7800e-003		243.8504
Total	0.1284	0.5727	0.9944	3.5500e-003	0.2571	5.0900e-003	0.2622	0.0688	4.8100e-003	0.0736		362.0626	362.0626	0.0169		362.4856

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0620	0.2688	2.2744	5.0500e-003		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	499.8093	499.8093	0.1581		503.7626
Total	0.0620	0.2688	2.2744	5.0500e-003		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	499.8093	499.8093	0.1581		503.7626

Anza 39 Unit Multi-Family - San Diego County, Summer

3.8 Building ConstructionCrane Usage - 2019**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0184	0.4960	0.1280	1.1000e-003	0.0271	3.4500e-003	0.0305	7.8000e-003	3.3000e-003	0.0111		118.4067	118.4067	9.1400e-003		118.6352
Worker	0.1099	0.0767	0.8664	2.4500e-003	0.2300	1.6400e-003	0.2317	0.0610	1.5100e-003	0.0625		243.6559	243.6559	7.7800e-003		243.8504
Total	0.1284	0.5727	0.9944	3.5500e-003	0.2571	5.0900e-003	0.2622	0.0688	4.8100e-003	0.0736		362.0626	362.0626	0.0169		362.4856

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Anza 39 Unit Multi-Family - San Diego County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.5525	2.2596	6.5416	0.0225	1.8922	0.0183	1.9105	0.5057	0.0171	0.5228		2,285.941 3	2,285.941 3	0.1170		2,288.865 0
Unmitigated	0.5525	2.2596	6.5416	0.0225	1.8922	0.0183	1.9105	0.5057	0.0171	0.5228		2,285.941 3	2,285.941 3	0.1170		2,288.865 0

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	312.00	312.00	312.00	892,346	892,346
Total	312.00	312.00	312.00	892,346	892,346

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	7.30	7.50	42.00	18.00	40.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

5.0 Energy Detail

Historical Energy Use: N

Anza 39 Unit Multi-Family - San Diego County, Summer

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0166	0.1416	0.0603	9.0000e-004		0.0115	0.0115		0.0115	0.0115		180.7997	180.7997	3.4700e-003	3.3100e-003	181.8741
NaturalGas Unmitigated	0.0166	0.1416	0.0603	9.0000e-004		0.0115	0.0115		0.0115	0.0115		180.7997	180.7997	3.4700e-003	3.3100e-003	181.8741

5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	1536.8	0.0166	0.1416	0.0603	9.0000e-004		0.0115	0.0115		0.0115	0.0115		180.7997	180.7997	3.4700e-003	3.3100e-003	181.8741
Total		0.0166	0.1416	0.0603	9.0000e-004		0.0115	0.0115		0.0115	0.0115		180.7997	180.7997	3.4700e-003	3.3100e-003	181.8741

Anza 39 Unit Multi-Family - San Diego County, Summer

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	1.5368	0.0166	0.1416	0.0603	9.0000e-004		0.0115	0.0115		0.0115	0.0115		180.7997	180.7997	3.4700e-003	3.3100e-003	181.8741
Total		0.0166	0.1416	0.0603	9.0000e-004		0.0115	0.0115		0.0115	0.0115		180.7997	180.7997	3.4700e-003	3.3100e-003	181.8741

6.0 Area Detail**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.0660	0.0372	3.2245	1.7000e-004		0.0178	0.0178		0.0178	0.0178	0.0000	5.7935	5.7935	5.6100e-003	0.0000	5.9339
Unmitigated	1.0660	0.0372	3.2245	1.7000e-004		0.0178	0.0178		0.0178	0.0178	0.0000	5.7935	5.7935	5.6100e-003	0.0000	5.9339

Anza 39 Unit Multi-Family - San Diego County, Summer

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1337					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8346					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0977	0.0372	3.2245	1.7000e-004		0.0178	0.0178		0.0178	0.0178		5.7935	5.7935	5.6100e-003		5.9339
Total	1.0660	0.0372	3.2245	1.7000e-004		0.0178	0.0178		0.0178	0.0178	0.0000	5.7935	5.7935	5.6100e-003	0.0000	5.9339

Anza 39 Unit Multi-Family - San Diego County, Summer

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1337					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8346					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0977	0.0372	3.2245	1.7000e-004		0.0178	0.0178		0.0178	0.0178		5.7935	5.7935	5.6100e-003		5.9339
Total	1.0660	0.0372	3.2245	1.7000e-004		0.0178	0.0178		0.0178	0.0178	0.0000	5.7935	5.7935	5.6100e-003	0.0000	5.9339

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Stationary Equipment

Anza 39 Unit Multi-Family - San Diego County, Summer

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

Anza 39 Unit Multi-Family - San Diego County, Winter

Anza 39 Unit Multi-Family
San Diego County, Winter**1.0 Project Characteristics**

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	39.00	Dwelling Unit	3.20	39,000.00	112

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2021
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	525.68	CH4 Intensity (lb/MW hr)	0.021	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Anza 39 Unit Multi-Family - San Diego County, Winter

Project Characteristics - RPS for 2021 included

Land Use - 3.2 acre site

Construction Phase - d

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - ce

Off-road Equipment - CE

Off-road Equipment - ce

Off-road Equipment - ce

Demolition -

Grading - ce

Architectural Coating - rule 67 paint

Vehicle Trips - d

Woodstoves - No hearth installed

Area Coating - Rule 67 Paint

Energy Use - High Efficiency Lighting Installed 100%

Construction Off-road Equipment Mitigation - Tier IV

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Residential_Exterior	250	100
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3

Anza 39 Unit Multi-Family - San Diego County, Winter

tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Anza 39 Unit Multi-Family - San Diego County, Winter

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	18.00	242.00
tblConstructionPhase	NumDays	230.00	300.00
tblConstructionPhase	NumDays	230.00	20.00
tblConstructionPhase	NumDays	8.00	13.00
tblEnergyUse	LightingElect	1,001.10	350.38
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	NumberGas	21.45	0.00
tblFireplaces	NumberNoFireplace	3.90	39.00
tblFireplaces	NumberWood	13.65	0.00
tblGrading	AcresOfGrading	6.50	3.20
tblLandUse	LotAcreage	2.44	3.20

Anza 39 Unit Multi-Family - San Diego County, Winter

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.021
tblProjectCharacteristics	CO2IntensityFactor	720.49	525.68
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblVehicleTrips	HO_TTP	39.60	40.00
tblVehicleTrips	HS_TTP	18.80	18.00
tblVehicleTrips	HW_TTP	41.60	42.00
tblVehicleTrips	ST_TR	5.67	8.00
tblVehicleTrips	SU_TR	4.84	8.00
tblVehicleTrips	WD_TR	5.81	8.00
tblWoodstoves	NumberCatalytic	1.95	0.00
tblWoodstoves	NumberNoncatalytic	1.95	0.00

2.0 Emissions Summary

Anza 39 Unit Multi-Family - San Diego County, Winter

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	4.9581	24.0977	21.1019	0.0371	6.3653	1.4293	7.4778	3.3602	1.3515	4.3838	0.0000	3,610.314 9	3,610.314 9	0.6909	0.0000	3,627.587 4
2020	4.1391	16.6974	17.8651	0.0286	0.3064	1.0377	1.3441	0.0819	0.9863	1.0682	0.0000	2,729.139 9	2,729.139 9	0.5038	0.0000	2,741.735 8
Maximum	4.9581	24.0977	21.1019	0.0371	6.3653	1.4293	7.4778	3.3602	1.3515	4.3838	0.0000	3,610.314 9	3,610.314 9	0.6909	0.0000	3,627.587 4

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	2.6881	3.5470	21.3894	0.0371	6.3653	0.0174	6.3711	3.3602	0.0168	3.3660	0.0000	3,610.314 9	3,610.314 9	0.6909	0.0000	3,627.587 4
2020	2.4693	2.6397	18.0544	0.0286	0.3064	9.6800e-003	0.3161	0.0819	9.4300e-003	0.0913	0.0000	2,729.139 9	2,729.139 9	0.5038	0.0000	2,741.735 8
Maximum	2.6881	3.5470	21.3894	0.0371	6.3653	0.0174	6.3711	3.3602	0.0168	3.3660	0.0000	3,610.314 9	3,610.314 9	0.6909	0.0000	3,627.587 4

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	43.31	84.83	-1.22	0.00	0.00	98.90	24.20	0.00	98.88	36.59	0.00	0.00	0.00	0.00	0.00	0.00

Anza 39 Unit Multi-Family - San Diego County, Winter

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0660	0.0372	3.2245	1.7000e-004		0.0178	0.0178		0.0178	0.0178	0.0000	5.7935	5.7935	5.6100e-003	0.0000	5.9339
Energy	0.0166	0.1416	0.0603	9.0000e-004		0.0115	0.0115		0.0115	0.0115		180.7997	180.7997	3.4700e-003	3.3100e-003	181.8741
Mobile	0.5366	2.3261	6.4188	0.0213	1.8922	0.0184	1.9106	0.5057	0.0172	0.5229		2,168.0743	2,168.0743	0.1173		2,171.0063
Total	1.6192	2.5049	9.7036	0.0224	1.8922	0.0476	1.9398	0.5057	0.0464	0.5522	0.0000	2,354.6676	2,354.6676	0.1264	3.3100e-003	2,358.8143

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0660	0.0372	3.2245	1.7000e-004		0.0178	0.0178		0.0178	0.0178	0.0000	5.7935	5.7935	5.6100e-003	0.0000	5.9339
Energy	0.0166	0.1416	0.0603	9.0000e-004		0.0115	0.0115		0.0115	0.0115		180.7997	180.7997	3.4700e-003	3.3100e-003	181.8741
Mobile	0.5366	2.3261	6.4188	0.0213	1.8922	0.0184	1.9106	0.5057	0.0172	0.5229		2,168.0743	2,168.0743	0.1173		2,171.0063
Total	1.6192	2.5049	9.7036	0.0224	1.8922	0.0476	1.9398	0.5057	0.0464	0.5522	0.0000	2,354.6676	2,354.6676	0.1264	3.3100e-003	2,358.8143

Anza 39 Unit Multi-Family - San Diego County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2019	1/28/2019	5	20	
2	Grading	Grading	1/29/2019	2/14/2019	5	13	
3	Utility Trenching and construction	Trenching	2/15/2019	3/14/2019	5	20	
4	Paving	Paving	3/15/2019	4/9/2019	5	18	
5	Building Construction No Crane	Building Construction	4/10/2019	6/2/2020	5	300	
6	Architectural Coating	Architectural Coating	7/1/2019	6/2/2020	5	242	
7	Building ConstructionCrane Usage	Building Construction	10/1/2019	10/28/2019	5	20	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 3.2****Acres of Paving: 0****Residential Indoor: 78,975; Residential Outdoor: 26,325; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Anza 39 Unit Multi-Family - San Diego County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	2	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utility Trenching and construction	Excavators	1	7.00	158	0.38
Utility Trenching and construction	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Utility Trenching and construction	Trenchers	1	7.00	78	0.50
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction No Crane	Forklifts	3	8.00	89	0.20
Building Construction No Crane	Generator Sets	1	8.00	84	0.74
Building Construction No Crane	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction No Crane	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building ConstructionCrane Usage	Cranes	1	7.00	231	0.29

Trips and VMT

Anza 39 Unit Multi-Family - San Diego County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	48.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching and construction	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction No Crane	8	28.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction Crane Use	1	28.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

3.2 Demolition - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5232	0.0000	0.5232	0.0792	0.0000	0.0792			0.0000			0.0000
Off-Road	2.1180	21.0267	14.5127	0.0251		1.0768	1.0768		1.0090	1.0090		2,460.3453	2,460.3453	0.6326		2,476.1610
Total	2.1180	21.0267	14.5127	0.0251	0.5232	1.0768	1.6001	0.0792	1.0090	1.0883		2,460.3453	2,460.3453	0.6326		2,476.1610

Anza 39 Unit Multi-Family - San Diego County, Winter

3.2 Demolition - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0214	0.7283	0.1668	1.8700e-003	0.0419	2.7800e-003	0.0447	0.0115	2.6600e-003	0.0142		204.2181	204.2181	0.0191		204.6943
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0444	0.0308	0.2924	8.2000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		81.6914	81.6914	2.6400e-003		81.7573
Total	0.0658	0.7591	0.4592	2.6900e-003	0.1241	3.3700e-003	0.1275	0.0333	3.2000e-003	0.0365		285.9095	285.9095	0.0217		286.4516

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5232	0.0000	0.5232	0.0792	0.0000	0.0792			0.0000			0.0000
Off-Road	0.2942	1.2749	15.5283	0.0251		5.8800e-003	5.8800e-003		5.8800e-003	5.8800e-003	0.0000	2,460.3453	2,460.3453	0.6326		2,476.1610
Total	0.2942	1.2749	15.5283	0.0251	0.5232	5.8800e-003	0.5291	0.0792	5.8800e-003	0.0851	0.0000	2,460.3453	2,460.3453	0.6326		2,476.1610

Anza 39 Unit Multi-Family - San Diego County, Winter

3.2 Demolition - 2019**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0214	0.7283	0.1668	1.8700e-003	0.0419	2.7800e-003	0.0447	0.0115	2.6600e-003	0.0142		204.2181	204.2181	0.0191		204.6943
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0444	0.0308	0.2924	8.2000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		81.6914	81.6914	2.6400e-003		81.7573
Total	0.0658	0.7591	0.4592	2.6900e-003	0.1241	3.3700e-003	0.1275	0.0333	3.2000e-003	0.0365		285.9095	285.9095	0.0217		286.4516

3.3 Grading - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2831	0.0000	6.2831	3.3384	0.0000	3.3384			0.0000			0.0000
Off-Road	2.0869	23.3288	10.7275	0.0214		1.1120	1.1120		1.0230	1.0230		2,118.1394	2,118.1394	0.6702		2,134.8933
Total	2.0869	23.3288	10.7275	0.0214	6.2831	1.1120	7.3951	3.3384	1.0230	4.3614		2,118.1394	2,118.1394	0.6702		2,134.8933

Anza 39 Unit Multi-Family - San Diego County, Winter

3.3 Grading - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0444	0.0308	0.2924	8.2000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		81.6914	81.6914	2.6400e-003		81.7573
Total	0.0444	0.0308	0.2924	8.2000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		81.6914	81.6914	2.6400e-003		81.7573

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2831	0.0000	6.2831	3.3384	0.0000	3.3384			0.0000			0.0000
Off-Road	0.2616	1.1338	11.4926	0.0214		5.2300e-003	5.2300e-003		5.2300e-003	5.2300e-003	0.0000	2,118.1393	2,118.1393	0.6702		2,134.8933
Total	0.2616	1.1338	11.4926	0.0214	6.2831	5.2300e-003	6.2884	3.3384	5.2300e-003	3.3436	0.0000	2,118.1393	2,118.1393	0.6702		2,134.8933

Anza 39 Unit Multi-Family - San Diego County, Winter

3.3 Grading - 2019**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0444	0.0308	0.2924	8.2000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		81.6914	81.6914	2.6400e-003		81.7573
Total	0.0444	0.0308	0.2924	8.2000e-004	0.0822	5.9000e-004	0.0827	0.0218	5.4000e-004	0.0223		81.6914	81.6914	2.6400e-003		81.7573

3.4 Utility Trenching and construction - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8119	7.8195	7.1794	0.0102		0.5089	0.5089		0.4681	0.4681		1,008.4559	1,008.4559	0.3191		1,016.4325
Total	0.8119	7.8195	7.1794	0.0102		0.5089	0.5089		0.4681	0.4681		1,008.4559	1,008.4559	0.3191		1,016.4325

Anza 39 Unit Multi-Family - San Diego County, Winter

3.4 Utility Trenching and construction - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0355	0.0246	0.2339	6.6000e-004	0.0657	4.7000e-004	0.0662	0.0174	4.3000e-004	0.0179		65.3531	65.3531	2.1100e-003		65.4058
Total	0.0355	0.0246	0.2339	6.6000e-004	0.0657	4.7000e-004	0.0662	0.0174	4.3000e-004	0.0179		65.3531	65.3531	2.1100e-003		65.4058

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1249	0.5414	7.7045	0.0102		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003	0.0000	1,008.4559	1,008.4559	0.3191		1,016.4325
Total	0.1249	0.5414	7.7045	0.0102		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003	0.0000	1,008.4559	1,008.4559	0.3191		1,016.4325

Anza 39 Unit Multi-Family - San Diego County, Winter

3.4 Utility Trenching and construction - 2019**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0355	0.0246	0.2339	6.6000e-004	0.0657	4.7000e-004	0.0662	0.0174	4.3000e-004	0.0179		65.3531	65.3531	2.1100e-003		65.4058
Total	0.0355	0.0246	0.2339	6.6000e-004	0.0657	4.7000e-004	0.0662	0.0174	4.3000e-004	0.0179		65.3531	65.3531	2.1100e-003		65.4058

3.5 Paving - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0641	10.7918	10.1891	0.0153		0.6248	0.6248		0.5757	0.5757		1,502.9424	1,502.9424	0.4675		1,514.6289
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0641	10.7918	10.1891	0.0153		0.6248	0.6248		0.5757	0.5757		1,502.9424	1,502.9424	0.4675		1,514.6289

Anza 39 Unit Multi-Family - San Diego County, Winter

3.5 Paving - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0666	0.0462	0.4386	1.2300e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		122.5371	122.5371	3.9500e-003		122.6359
Total	0.0666	0.0462	0.4386	1.2300e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		122.5371	122.5371	3.9500e-003		122.6359

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1817	0.7875	11.2066	0.0153		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	1,502.9424	1,502.9424	0.4675		1,514.6289
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.1817	0.7875	11.2066	0.0153		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	1,502.9424	1,502.9424	0.4675		1,514.6289

Anza 39 Unit Multi-Family - San Diego County, Winter

3.5 Paving - 2019**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0666	0.0462	0.4386	1.2300e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		122.5371	122.5371	3.9500e-003		122.6359
Total	0.0666	0.0462	0.4386	1.2300e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		122.5371	122.5371	3.9500e-003		122.6359

3.6 Building Construction No Crane - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9201	15.8227	15.1574	0.0219		1.0671	1.0671		1.0077	1.0077		2,091.7709	2,091.7709	0.4732		2,103.6009
Total	1.9201	15.8227	15.1574	0.0219		1.0671	1.0671		1.0077	1.0077		2,091.7709	2,091.7709	0.4732		2,103.6009

Anza 39 Unit Multi-Family - San Diego County, Winter

3.6 Building Construction No Crane - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0192	0.4964	0.1420	1.0800e-003	0.0271	3.5100e-003	0.0306	7.8000e-003	3.3600e-003	0.0112		115.4001	115.4001	9.7200e-003		115.6432
Worker	0.1243	0.0862	0.8187	2.3000e-003	0.2300	1.6400e-003	0.2317	0.0610	1.5100e-003	0.0625		228.7359	228.7359	7.3800e-003		228.9204
Total	0.1435	0.5825	0.9607	3.3800e-003	0.2571	5.1500e-003	0.2622	0.0688	4.8700e-003	0.0737		344.1360	344.1360	0.0171		344.5636

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2658	1.9659	15.1859	0.0219		4.8800e-003	4.8800e-003		4.8800e-003	4.8800e-003	0.0000	2,091.7709	2,091.7709	0.4732		2,103.6009
Total	0.2658	1.9659	15.1859	0.0219		4.8800e-003	4.8800e-003		4.8800e-003	4.8800e-003	0.0000	2,091.7709	2,091.7709	0.4732		2,103.6009

Anza 39 Unit Multi-Family - San Diego County, Winter

3.6 Building Construction No Crane - 2019**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0192	0.4964	0.1420	1.0800e-003	0.0271	3.5100e-003	0.0306	7.8000e-003	3.3600e-003	0.0112		115.4001	115.4001	9.7200e-003		115.6432
Worker	0.1243	0.0862	0.8187	2.3000e-003	0.2300	1.6400e-003	0.2317	0.0610	1.5100e-003	0.0625		228.7359	228.7359	7.3800e-003		228.9204
Total	0.1435	0.5825	0.9607	3.3800e-003	0.2571	5.1500e-003	0.2622	0.0688	4.8700e-003	0.0737		344.1360	344.1360	0.0171		344.5636

3.6 Building Construction No Crane - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7231	14.4685	14.9976	0.0219		0.9226	0.9226		0.8714	0.8714		2,064.1221	2,064.1221	0.4647		2,075.7402
Total	1.7231	14.4685	14.9976	0.0219		0.9226	0.9226		0.8714	0.8714		2,064.1221	2,064.1221	0.4647		2,075.7402

Anza 39 Unit Multi-Family - San Diego County, Winter

3.6 Building Construction No Crane - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0157	0.4507	0.1275	1.0700e-003	0.0271	2.2500e-003	0.0293	7.8000e-003	2.1500e-003	9.9500e-003		114.5849	114.5849	9.2200e-003		114.8154
Worker	0.1164	0.0777	0.7483	2.2200e-003	0.2300	1.6100e-003	0.2316	0.0610	1.4900e-003	0.0625		221.5170	221.5170	6.6700e-003		221.6837
Total	0.1320	0.5284	0.8758	3.2900e-003	0.2571	3.8600e-003	0.2610	0.0688	3.6400e-003	0.0725		336.1018	336.1018	0.0159		336.4991

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2658	1.9659	15.1859	0.0219		4.8800e-003	4.8800e-003		4.8800e-003	4.8800e-003	0.0000	2,064.1221	2,064.1221	0.4647		2,075.7402
Total	0.2658	1.9659	15.1859	0.0219		4.8800e-003	4.8800e-003		4.8800e-003	4.8800e-003	0.0000	2,064.1221	2,064.1221	0.4647		2,075.7402

Anza 39 Unit Multi-Family - San Diego County, Winter

3.6 Building Construction No Crane - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0157	0.4507	0.1275	1.0700e-003	0.0271	2.2500e-003	0.0293	7.8000e-003	2.1500e-003	9.9500e-003		114.5849	114.5849	9.2200e-003		114.8154
Worker	0.1164	0.0777	0.7483	2.2200e-003	0.2300	1.6100e-003	0.2316	0.0610	1.4900e-003	0.0625		221.5170	221.5170	6.6700e-003		221.6837
Total	0.1320	0.5284	0.8758	3.2900e-003	0.2571	3.8600e-003	0.2610	0.0688	3.6400e-003	0.0725		336.1018	336.1018	0.0159		336.4991

3.7 Architectural Coating - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.0168					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	2.2832	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

Anza 39 Unit Multi-Family - San Diego County, Winter

3.7 Architectural Coating - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0266	0.0185	0.1754	4.9000e-004	0.0493	3.5000e-004	0.0496	0.0131	3.2000e-004	0.0134		49.0148	49.0148	1.5800e-003		49.0544
Total	0.0266	0.0185	0.1754	4.9000e-004	0.0493	3.5000e-004	0.0496	0.0131	3.2000e-004	0.0134		49.0148	49.0148	1.5800e-003		49.0544

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.0168					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	281.4481	281.4481	0.0238		282.0423
Total	2.0465	0.1288	1.8324	2.9700e-003		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	281.4481	281.4481	0.0238		282.0423

Anza 39 Unit Multi-Family - San Diego County, Winter

3.7 Architectural Coating - 2019**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0266	0.0185	0.1754	4.9000e-004	0.0493	3.5000e-004	0.0496	0.0131	3.2000e-004	0.0134		49.0148	49.0148	1.5800e-003		49.0544
Total	0.0266	0.0185	0.1754	4.9000e-004	0.0493	3.5000e-004	0.0496	0.0131	3.2000e-004	0.0134		49.0148	49.0148	1.5800e-003		49.0544

3.7 Architectural Coating - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.0168					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	2.2590	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

Anza 39 Unit Multi-Family - San Diego County, Winter

3.7 Architectural Coating - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0249	0.0167	0.1604	4.8000e-004	0.0493	3.5000e-004	0.0496	0.0131	3.2000e-004	0.0134		47.4679	47.4679	1.4300e-003		47.5037
Total	0.0249	0.0167	0.1604	4.8000e-004	0.0493	3.5000e-004	0.0496	0.0131	3.2000e-004	0.0134		47.4679	47.4679	1.4300e-003		47.5037

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.0168					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	281.4481	281.4481	0.0218		281.9928
Total	2.0465	0.1288	1.8324	2.9700e-003		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	281.4481	281.4481	0.0218		281.9928

Anza 39 Unit Multi-Family - San Diego County, Winter

3.7 Architectural Coating - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0249	0.0167	0.1604	4.8000e-004	0.0493	3.5000e-004	0.0496	0.0131	3.2000e-004	0.0134		47.4679	47.4679	1.4300e-003		47.5037
Total	0.0249	0.0167	0.1604	4.8000e-004	0.0493	3.5000e-004	0.0496	0.0131	3.2000e-004	0.0134		47.4679	47.4679	1.4300e-003		47.5037

3.8 Building ConstructionCrane Usage - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4410	5.2561	2.0064	5.0500e-003		0.2228	0.2228		0.2050	0.2050		499.8093	499.8093	0.1581		503.7626
Total	0.4410	5.2561	2.0064	5.0500e-003		0.2228	0.2228		0.2050	0.2050		499.8093	499.8093	0.1581		503.7626

Anza 39 Unit Multi-Family - San Diego County, Winter

3.8 Building ConstructionCrane Usage - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0192	0.4964	0.1420	1.0800e-003	0.0271	3.5100e-003	0.0306	7.8000e-003	3.3600e-003	0.0112		115.4001	115.4001	9.7200e-003		115.6432
Worker	0.1243	0.0862	0.8187	2.3000e-003	0.2300	1.6400e-003	0.2317	0.0610	1.5100e-003	0.0625		228.7359	228.7359	7.3800e-003		228.9204
Total	0.1435	0.5825	0.9607	3.3800e-003	0.2571	5.1500e-003	0.2622	0.0688	4.8700e-003	0.0737		344.1360	344.1360	0.0171		344.5636

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0620	0.2688	2.2744	5.0500e-003		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	499.8093	499.8093	0.1581		503.7626
Total	0.0620	0.2688	2.2744	5.0500e-003		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	499.8093	499.8093	0.1581		503.7626

Anza 39 Unit Multi-Family - San Diego County, Winter

3.8 Building ConstructionCrane Usage - 2019**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0192	0.4964	0.1420	1.0800e-003	0.0271	3.5100e-003	0.0306	7.8000e-003	3.3600e-003	0.0112		115.4001	115.4001	9.7200e-003		115.6432
Worker	0.1243	0.0862	0.8187	2.3000e-003	0.2300	1.6400e-003	0.2317	0.0610	1.5100e-003	0.0625		228.7359	228.7359	7.3800e-003		228.9204
Total	0.1435	0.5825	0.9607	3.3800e-003	0.2571	5.1500e-003	0.2622	0.0688	4.8700e-003	0.0737		344.1360	344.1360	0.0171		344.5636

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Anza 39 Unit Multi-Family - San Diego County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.5366	2.3261	6.4188	0.0213	1.8922	0.0184	1.9106	0.5057	0.0172	0.5229		2,168.074 3	2,168.074 3	0.1173		2,171.006 3
Unmitigated	0.5366	2.3261	6.4188	0.0213	1.8922	0.0184	1.9106	0.5057	0.0172	0.5229		2,168.074 3	2,168.074 3	0.1173		2,171.006 3

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	312.00	312.00	312.00	892,346	892,346
Total	312.00	312.00	312.00	892,346	892,346

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	7.30	7.50	42.00	18.00	40.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

5.0 Energy Detail

Historical Energy Use: N

Anza 39 Unit Multi-Family - San Diego County, Winter

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0166	0.1416	0.0603	9.0000e-004		0.0115	0.0115		0.0115	0.0115		180.7997	180.7997	3.4700e-003	3.3100e-003	181.8741
NaturalGas Unmitigated	0.0166	0.1416	0.0603	9.0000e-004		0.0115	0.0115		0.0115	0.0115		180.7997	180.7997	3.4700e-003	3.3100e-003	181.8741

5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	1536.8	0.0166	0.1416	0.0603	9.0000e-004		0.0115	0.0115		0.0115	0.0115		180.7997	180.7997	3.4700e-003	3.3100e-003	181.8741
Total		0.0166	0.1416	0.0603	9.0000e-004		0.0115	0.0115		0.0115	0.0115		180.7997	180.7997	3.4700e-003	3.3100e-003	181.8741

Anza 39 Unit Multi-Family - San Diego County, Winter

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	1.5368	0.0166	0.1416	0.0603	9.0000e-004		0.0115	0.0115		0.0115	0.0115		180.7997	180.7997	3.4700e-003	3.3100e-003	181.8741
Total		0.0166	0.1416	0.0603	9.0000e-004		0.0115	0.0115		0.0115	0.0115		180.7997	180.7997	3.4700e-003	3.3100e-003	181.8741

6.0 Area Detail**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.0660	0.0372	3.2245	1.7000e-004		0.0178	0.0178		0.0178	0.0178	0.0000	5.7935	5.7935	5.6100e-003	0.0000	5.9339
Unmitigated	1.0660	0.0372	3.2245	1.7000e-004		0.0178	0.0178		0.0178	0.0178	0.0000	5.7935	5.7935	5.6100e-003	0.0000	5.9339

Anza 39 Unit Multi-Family - San Diego County, Winter

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1337					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8346					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0977	0.0372	3.2245	1.7000e-004		0.0178	0.0178		0.0178	0.0178		5.7935	5.7935	5.6100e-003		5.9339
Total	1.0660	0.0372	3.2245	1.7000e-004		0.0178	0.0178		0.0178	0.0178	0.0000	5.7935	5.7935	5.6100e-003	0.0000	5.9339

Anza 39 Unit Multi-Family - San Diego County, Winter

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1337					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8346					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0977	0.0372	3.2245	1.7000e-004		0.0178	0.0178		0.0178	0.0178		5.7935	5.7935	5.6100e-003		5.9339
Total	1.0660	0.0372	3.2245	1.7000e-004		0.0178	0.0178		0.0178	0.0178	0.0000	5.7935	5.7935	5.6100e-003	0.0000	5.9339

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Stationary Equipment

Anza 39 Unit Multi-Family - San Diego County, Winter

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

Anza 39 Unit Multi-Family - San Diego County, Annual

Anza 39 Unit Multi-Family
San Diego County, Annual**1.0 Project Characteristics**

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	39.00	Dwelling Unit	3.20	39,000.00	112

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2021
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	525.68	CH4 Intensity (lb/MWhr)	0.021	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Anza 39 Unit Multi-Family - San Diego County, Annual

Project Characteristics - RPS for 2021 included

Land Use - 3.2 acre site

Construction Phase - d

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - ce

Off-road Equipment - CE

Off-road Equipment - ce

Off-road Equipment - ce

Demolition -

Grading - ce

Architectural Coating - rule 67 paint

Vehicle Trips - d

Woodstoves - No hearth installed

Area Coating - Rule 67 Paint

Energy Use - High Efficiency Lighting Installed 100%

Construction Off-road Equipment Mitigation - Tier IV

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Residential_Exterior	250	100
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3

Anza 39 Unit Multi-Family - San Diego County, Annual

tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Anza 39 Unit Multi-Family - San Diego County, Annual

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	18.00	242.00
tblConstructionPhase	NumDays	230.00	300.00
tblConstructionPhase	NumDays	230.00	20.00
tblConstructionPhase	NumDays	8.00	13.00
tblEnergyUse	LightingElect	1,001.10	350.38
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	NumberGas	21.45	0.00
tblFireplaces	NumberNoFireplace	3.90	39.00
tblFireplaces	NumberWood	13.65	0.00
tblGrading	AcresOfGrading	6.50	3.20
tblLandUse	LotAcreage	2.44	3.20

Anza 39 Unit Multi-Family - San Diego County, Annual

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.021
tblProjectCharacteristics	CO2IntensityFactor	720.49	525.68
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblVehicleTrips	HO_TTP	39.60	40.00
tblVehicleTrips	HS_TTP	18.80	18.00
tblVehicleTrips	HW_TTP	41.60	42.00
tblVehicleTrips	ST_TR	5.67	8.00
tblVehicleTrips	SU_TR	4.84	8.00
tblVehicleTrips	WD_TR	5.81	8.00
tblWoodstoves	NumberCatalytic	1.95	0.00
tblWoodstoves	NumberNoncatalytic	1.95	0.00

2.0 Emissions Summary

Anza 39 Unit Multi-Family - San Diego County, Annual

2.1 Overall Construction**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.4068	2.2854	2.0844	3.4000e-003	0.0791	0.1414	0.2205	0.0313	0.1335	0.1648	0.0000	298.7329	298.7329	0.0620	0.0000	300.2830
2020	0.2268	0.9186	0.9823	1.5800e-003	0.0165	0.0571	0.0735	4.4100e-003	0.0543	0.0587	0.0000	136.3927	136.3927	0.0251	0.0000	137.0209
Maximum	0.4068	2.2854	2.0844	3.4000e-003	0.0791	0.1414	0.2205	0.0313	0.1335	0.1648	0.0000	298.7329	298.7329	0.0620	0.0000	300.2830

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.1853	0.3019	2.1187	3.4000e-003	0.0791	1.2800e-003	0.0804	0.0313	1.2400e-003	0.0326	0.0000	298.7326	298.7326	0.0620	0.0000	300.2827
2020	0.1349	0.1454	0.9927	1.5800e-003	0.0165	5.3000e-004	0.0170	4.4100e-003	5.2000e-004	4.9200e-003	0.0000	136.3926	136.3926	0.0251	0.0000	137.0208
Maximum	0.1853	0.3019	2.1187	3.4000e-003	0.0791	1.2800e-003	0.0804	0.0313	1.2400e-003	0.0326	0.0000	298.7326	298.7326	0.0620	0.0000	300.2827

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	49.46	86.04	-1.46	0.00	0.00	99.09	66.89	0.00	99.06	83.22	0.00	0.00	0.00	0.00	0.00	0.00

Anza 39 Unit Multi-Family - San Diego County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2019	3-31-2019	0.5540	0.0467
2	4-1-2019	6-30-2019	0.5786	0.0893
3	7-1-2019	9-30-2019	0.7427	0.1691
4	10-1-2019	12-31-2019	0.8079	0.1807
5	1-1-2020	3-31-2020	0.6772	0.1660
6	4-1-2020	6-30-2020	0.4682	0.1143
		Highest	0.8079	0.1807

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1855	3.3500e-003	0.2902	2.0000e-005		1.6000e-003	1.6000e-003		1.6000e-003	1.6000e-003	0.0000	0.4730	0.4730	4.6000e-004	0.0000	0.4845
Energy	3.0200e-003	0.0259	0.0110	1.6000e-004		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	70.5958	70.5958	2.2000e-003	8.6000e-004	70.9065
Mobile	0.0953	0.4246	1.1559	3.9200e-003	0.3363	3.3300e-003	0.3396	0.0901	3.1200e-003	0.0932	0.0000	361.2957	361.2957	0.0192	0.0000	361.7749
Waste						0.0000	0.0000		0.0000	0.0000	3.6417	0.0000	3.6417	0.2152	0.0000	9.0221
Water						0.0000	0.0000		0.0000	0.0000	0.8061	12.1330	12.9392	0.0833	2.0500e-003	15.6314
Total	0.2839	0.4538	1.4571	4.1000e-003	0.3363	7.0200e-003	0.3433	0.0901	6.8100e-003	0.0969	4.4478	444.4975	448.9453	0.3203	2.9100e-003	457.8193

Anza 39 Unit Multi-Family - San Diego County, Annual

2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1855	3.3500e-003	0.2902	2.0000e-005		1.6000e-003	1.6000e-003		1.6000e-003	1.6000e-003	0.0000	0.4730	0.4730	4.6000e-004	0.0000	0.4845
Energy	3.0200e-003	0.0259	0.0110	1.6000e-004		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	70.5958	70.5958	2.2000e-003	8.6000e-004	70.9065
Mobile	0.0953	0.4246	1.1559	3.9200e-003	0.3363	3.3300e-003	0.3396	0.0901	3.1200e-003	0.0932	0.0000	361.2957	361.2957	0.0192	0.0000	361.7749
Waste						0.0000	0.0000		0.0000	0.0000	3.6417	0.0000	3.6417	0.2152	0.0000	9.0221
Water						0.0000	0.0000		0.0000	0.0000	0.8061	12.1330	12.9392	0.0833	2.0500e-003	15.6314
Total	0.2839	0.4538	1.4571	4.1000e-003	0.3363	7.0200e-003	0.3433	0.0901	6.8100e-003	0.0969	4.4478	444.4975	448.9453	0.3203	2.9100e-003	457.8193

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail**Construction Phase**

Anza 39 Unit Multi-Family - San Diego County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2019	1/28/2019	5	20	
2	Grading	Grading	1/29/2019	2/14/2019	5	13	
3	Utility Trenching and construction	Trenching	2/15/2019	3/14/2019	5	20	
4	Paving	Paving	3/15/2019	4/9/2019	5	18	
5	Building Construction No Crane	Building Construction	4/10/2019	6/2/2020	5	300	
6	Architectural Coating	Architectural Coating	7/1/2019	6/2/2020	5	242	
7	Building ConstructionCrane Usage	Building Construction	10/1/2019	10/28/2019	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3.2

Acres of Paving: 0

Residential Indoor: 78,975; Residential Outdoor: 26,325; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0
(Architectural Coating – sqft)

OffRoad Equipment

Anza 39 Unit Multi-Family - San Diego County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	2	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Utility Trenching and construction	Excavators	1	7.00	158	0.38
Utility Trenching and construction	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Utility Trenching and construction	Trenchers	1	7.00	78	0.50
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction No Crane	Forklifts	3	8.00	89	0.20
Building Construction No Crane	Generator Sets	1	8.00	84	0.74
Building Construction No Crane	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction No Crane	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building ConstructionCrane Usage	Cranes	1	7.00	231	0.29

Trips and VMT

Anza 39 Unit Multi-Family - San Diego County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	48.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching and construction	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction No Crane	8	28.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction Crane Use	1	28.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

3.2 Demolition - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.2300e-003	0.0000	5.2300e-003	7.9000e-004	0.0000	7.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0212	0.2103	0.1451	2.5000e-004		0.0108	0.0108		0.0101	0.0101	0.0000	22.3199	22.3199	5.7400e-003	0.0000	22.4634
Total	0.0212	0.2103	0.1451	2.5000e-004	5.2300e-003	0.0108	0.0160	7.9000e-004	0.0101	0.0109	0.0000	22.3199	22.3199	5.7400e-003	0.0000	22.4634

Anza 39 Unit Multi-Family - San Diego County, Annual

3.2 Demolition - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.1000e-004	7.3500e-003	1.6000e-003	2.0000e-005	4.1000e-004	3.0000e-005	4.4000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.8710	1.8710	1.7000e-004	0.0000	1.8753
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	3.0000e-004	2.9300e-003	1.0000e-005	8.0000e-004	1.0000e-005	8.1000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	0.7485	0.7485	2.0000e-005	0.0000	0.7491
Total	6.0000e-004	7.6500e-003	4.5300e-003	3.0000e-005	1.2100e-003	4.0000e-005	1.2500e-003	3.2000e-004	4.0000e-005	3.6000e-004	0.0000	2.6195	2.6195	1.9000e-004	0.0000	2.6244

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.2300e-003	0.0000	5.2300e-003	7.9000e-004	0.0000	7.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9400e-003	0.0128	0.1553	2.5000e-004		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	22.3199	22.3199	5.7400e-003	0.0000	22.4633
Total	2.9400e-003	0.0128	0.1553	2.5000e-004	5.2300e-003	6.0000e-005	5.2900e-003	7.9000e-004	6.0000e-005	8.5000e-004	0.0000	22.3199	22.3199	5.7400e-003	0.0000	22.4633

Anza 39 Unit Multi-Family - San Diego County, Annual

3.2 Demolition - 2019**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.1000e-004	7.3500e-003	1.6000e-003	2.0000e-005	4.1000e-004	3.0000e-005	4.4000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.8710	1.8710	1.7000e-004	0.0000	1.8753
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	3.0000e-004	2.9300e-003	1.0000e-005	8.0000e-004	1.0000e-005	8.1000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	0.7485	0.7485	2.0000e-005	0.0000	0.7491
Total	6.0000e-004	7.6500e-003	4.5300e-003	3.0000e-005	1.2100e-003	4.0000e-005	1.2500e-003	3.2000e-004	4.0000e-005	3.6000e-004	0.0000	2.6195	2.6195	1.9000e-004	0.0000	2.6244

3.3 Grading - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0408	0.0000	0.0408	0.0217	0.0000	0.0217	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0136	0.1516	0.0697	1.4000e-004		7.2300e-003	7.2300e-003		6.6500e-003	6.6500e-003	0.0000	12.4900	12.4900	3.9500e-003	0.0000	12.5888
Total	0.0136	0.1516	0.0697	1.4000e-004	0.0408	7.2300e-003	0.0481	0.0217	6.6500e-003	0.0284	0.0000	12.4900	12.4900	3.9500e-003	0.0000	12.5888

Anza 39 Unit Multi-Family - San Diego County, Annual

3.3 Grading - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	2.0000e-004	1.9000e-003	1.0000e-005	5.2000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4865	0.4865	2.0000e-005	0.0000	0.4869
Total	2.6000e-004	2.0000e-004	1.9000e-003	1.0000e-005	5.2000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4865	0.4865	2.0000e-005	0.0000	0.4869

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0408	0.0000	0.0408	0.0217	0.0000	0.0217	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7000e-003	7.3700e-003	0.0747	1.4000e-004		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	12.4900	12.4900	3.9500e-003	0.0000	12.5888
Total	1.7000e-003	7.3700e-003	0.0747	1.4000e-004	0.0408	3.0000e-005	0.0409	0.0217	3.0000e-005	0.0217	0.0000	12.4900	12.4900	3.9500e-003	0.0000	12.5888

Anza 39 Unit Multi-Family - San Diego County, Annual

3.3 Grading - 2019**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	2.0000e-004	1.9000e-003	1.0000e-005	5.2000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4865	0.4865	2.0000e-005	0.0000	0.4869
Total	2.6000e-004	2.0000e-004	1.9000e-003	1.0000e-005	5.2000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4865	0.4865	2.0000e-005	0.0000	0.4869

3.4 Utility Trenching and construction - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.1200e-003	0.0782	0.0718	1.0000e-004		5.0900e-003	5.0900e-003		4.6800e-003	4.6800e-003	0.0000	9.1486	9.1486	2.8900e-003	0.0000	9.2209
Total	8.1200e-003	0.0782	0.0718	1.0000e-004		5.0900e-003	5.0900e-003		4.6800e-003	4.6800e-003	0.0000	9.1486	9.1486	2.8900e-003	0.0000	9.2209

Anza 39 Unit Multi-Family - San Diego County, Annual

3.4 Utility Trenching and construction - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	2.4000e-004	2.3400e-003	1.0000e-005	6.4000e-004	0.0000	6.5000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5988	0.5988	2.0000e-005	0.0000	0.5993
Total	3.2000e-004	2.4000e-004	2.3400e-003	1.0000e-005	6.4000e-004	0.0000	6.5000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5988	0.5988	2.0000e-005	0.0000	0.5993

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.2500e-003	5.4100e-003	0.0770	1.0000e-004		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.1486	9.1486	2.8900e-003	0.0000	9.2209
Total	1.2500e-003	5.4100e-003	0.0770	1.0000e-004		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.1486	9.1486	2.8900e-003	0.0000	9.2209

Anza 39 Unit Multi-Family - San Diego County, Annual

3.4 Utility Trenching and construction - 2019**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	2.4000e-004	2.3400e-003	1.0000e-005	6.4000e-004	0.0000	6.5000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5988	0.5988	2.0000e-005	0.0000	0.5993
Total	3.2000e-004	2.4000e-004	2.3400e-003	1.0000e-005	6.4000e-004	0.0000	6.5000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5988	0.5988	2.0000e-005	0.0000	0.5993

3.5 Paving - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.5800e-003	0.0971	0.0917	1.4000e-004		5.6200e-003	5.6200e-003		5.1800e-003	5.1800e-003	0.0000	12.2710	12.2710	3.8200e-003	0.0000	12.3664
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	9.5800e-003	0.0971	0.0917	1.4000e-004		5.6200e-003	5.6200e-003		5.1800e-003	5.1800e-003	0.0000	12.2710	12.2710	3.8200e-003	0.0000	12.3664

Anza 39 Unit Multi-Family - San Diego County, Annual

3.5 Paving - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3000e-004	4.1000e-004	3.9500e-003	1.0000e-005	1.0800e-003	1.0000e-005	1.0900e-003	2.9000e-004	1.0000e-005	2.9000e-004	0.0000	1.0105	1.0105	3.0000e-005	0.0000	1.0113
Total	5.3000e-004	4.1000e-004	3.9500e-003	1.0000e-005	1.0800e-003	1.0000e-005	1.0900e-003	2.9000e-004	1.0000e-005	2.9000e-004	0.0000	1.0105	1.0105	3.0000e-005	0.0000	1.0113

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.6400e-003	7.0900e-003	0.1009	1.4000e-004		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	12.2710	12.2710	3.8200e-003	0.0000	12.3664
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.6400e-003	7.0900e-003	0.1009	1.4000e-004		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	12.2710	12.2710	3.8200e-003	0.0000	12.3664

Anza 39 Unit Multi-Family - San Diego County, Annual

3.5 Paving - 2019**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3000e-004	4.1000e-004	3.9500e-003	1.0000e-005	1.0800e-003	1.0000e-005	1.0900e-003	2.9000e-004	1.0000e-005	2.9000e-004	0.0000	1.0105	1.0105	3.0000e-005	0.0000	1.0113
Total	5.3000e-004	4.1000e-004	3.9500e-003	1.0000e-005	1.0800e-003	1.0000e-005	1.0900e-003	2.9000e-004	1.0000e-005	2.9000e-004	0.0000	1.0105	1.0105	3.0000e-005	0.0000	1.0113

3.6 Building Construction No Crane - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1824	1.5032	1.4400	2.0800e-003		0.1014	0.1014		0.0957	0.0957	0.0000	180.2742	180.2742	0.0408	0.0000	181.2937
Total	0.1824	1.5032	1.4400	2.0800e-003		0.1014	0.1014		0.0957	0.0957	0.0000	180.2742	180.2742	0.0408	0.0000	181.2937

Anza 39 Unit Multi-Family - San Diego County, Annual

3.6 Building Construction No Crane - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7800e-003	0.0477	0.0128	1.0000e-004	2.5200e-003	3.3000e-004	2.8500e-003	7.3000e-004	3.2000e-004	1.0400e-003	0.0000	10.0958	10.0958	8.1000e-004	0.0000	10.1160
Worker	0.0105	8.0500e-003	0.0778	2.2000e-004	0.0213	1.6000e-004	0.0215	5.6700e-003	1.4000e-004	5.8100e-003	0.0000	19.9100	19.9100	6.4000e-004	0.0000	19.9260
Total	0.0123	0.0558	0.0906	3.2000e-004	0.0239	4.9000e-004	0.0243	6.4000e-003	4.6000e-004	6.8500e-003	0.0000	30.0058	30.0058	1.4500e-003	0.0000	30.0420

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0253	0.1868	1.4427	2.0800e-003		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	180.2739	180.2739	0.0408	0.0000	181.2935
Total	0.0253	0.1868	1.4427	2.0800e-003		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	180.2739	180.2739	0.0408	0.0000	181.2935

Anza 39 Unit Multi-Family - San Diego County, Annual

3.6 Building Construction No Crane - 2019**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7800e-003	0.0477	0.0128	1.0000e-004	2.5200e-003	3.3000e-004	2.8500e-003	7.3000e-004	3.2000e-004	1.0400e-003	0.0000	10.0958	10.0958	8.1000e-004	0.0000	10.1160
Worker	0.0105	8.0500e-003	0.0778	2.2000e-004	0.0213	1.6000e-004	0.0215	5.6700e-003	1.4000e-004	5.8100e-003	0.0000	19.9100	19.9100	6.4000e-004	0.0000	19.9260
Total	0.0123	0.0558	0.0906	3.2000e-004	0.0239	4.9000e-004	0.0243	6.4000e-003	4.6000e-004	6.8500e-003	0.0000	30.0058	30.0058	1.4500e-003	0.0000	30.0420

3.6 Building Construction No Crane - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0948	0.7958	0.8249	1.2000e-003		0.0507	0.0507		0.0479	0.0479	0.0000	102.9897	102.9897	0.0232	0.0000	103.5694
Total	0.0948	0.7958	0.8249	1.2000e-003		0.0507	0.0507		0.0479	0.0479	0.0000	102.9897	102.9897	0.0232	0.0000	103.5694

Anza 39 Unit Multi-Family - San Diego County, Annual

3.6 Building Construction No Crane - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.4000e-004	0.0251	6.6600e-003	6.0000e-005	1.4600e-003	1.2000e-004	1.5800e-003	4.2000e-004	1.2000e-004	5.4000e-004	0.0000	5.8050	5.8050	4.4000e-004	0.0000	5.8161
Worker	5.6800e-003	4.2000e-003	0.0412	1.2000e-004	0.0124	9.0000e-005	0.0124	3.2800e-003	8.0000e-005	3.3600e-003	0.0000	11.1631	11.1631	3.4000e-004	0.0000	11.1715
Total	6.5200e-003	0.0293	0.0479	1.8000e-004	0.0138	2.1000e-004	0.0140	3.7000e-003	2.0000e-004	3.9000e-003	0.0000	16.9680	16.9680	7.8000e-004	0.0000	16.9875

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0146	0.1081	0.8352	1.2000e-003		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	102.9896	102.9896	0.0232	0.0000	103.5693
Total	0.0146	0.1081	0.8352	1.2000e-003		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	102.9896	102.9896	0.0232	0.0000	103.5693

Anza 39 Unit Multi-Family - San Diego County, Annual

3.6 Building Construction No Crane - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.4000e-004	0.0251	6.6600e-003	6.0000e-005	1.4600e-003	1.2000e-004	1.5800e-003	4.2000e-004	1.2000e-004	5.4000e-004	0.0000	5.8050	5.8050	4.4000e-004	0.0000	5.8161
Worker	5.6800e-003	4.2000e-003	0.0412	1.2000e-004	0.0124	9.0000e-005	0.0124	3.2800e-003	8.0000e-005	3.3600e-003	0.0000	11.1631	11.1631	3.4000e-004	0.0000	11.1715
Total	6.5200e-003	0.0293	0.0479	1.8000e-004	0.0138	2.1000e-004	0.0140	3.7000e-003	2.0000e-004	3.9000e-003	0.0000	16.9680	16.9680	7.8000e-004	0.0000	16.9875

3.7 Architectural Coating - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1331					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0176	0.1211	0.1215	2.0000e-004		8.5000e-003	8.5000e-003		8.5000e-003	8.5000e-003	0.0000	16.8515	16.8515	1.4200e-003	0.0000	16.8871
Total	0.1507	0.1211	0.1215	2.0000e-004		8.5000e-003	8.5000e-003		8.5000e-003	8.5000e-003	0.0000	16.8515	16.8515	1.4200e-003	0.0000	16.8871

Anza 39 Unit Multi-Family - San Diego County, Annual

3.7 Architectural Coating - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5600e-003	1.2000e-003	0.0116	3.0000e-005	3.1800e-003	2.0000e-005	3.2000e-003	8.4000e-004	2.0000e-005	8.7000e-004	0.0000	2.9641	2.9641	1.0000e-004	0.0000	2.9664
Total	1.5600e-003	1.2000e-003	0.0116	3.0000e-005	3.1800e-003	2.0000e-005	3.2000e-003	8.4000e-004	2.0000e-005	8.7000e-004	0.0000	2.9641	2.9641	1.0000e-004	0.0000	2.9664

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1331					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9600e-003	8.5000e-003	0.1209	2.0000e-004		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	16.8515	16.8515	1.4200e-003	0.0000	16.8870
Total	0.1351	8.5000e-003	0.1209	2.0000e-004		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	16.8515	16.8515	1.4200e-003	0.0000	16.8870

Anza 39 Unit Multi-Family - San Diego County, Annual

3.7 Architectural Coating - 2019**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5600e-003	1.2000e-003	0.0116	3.0000e-005	3.1800e-003	2.0000e-005	3.2000e-003	8.4000e-004	2.0000e-005	8.7000e-004	0.0000	2.9641	2.9641	1.0000e-004	0.0000	2.9664
Total	1.5600e-003	1.2000e-003	0.0116	3.0000e-005	3.1800e-003	2.0000e-005	3.2000e-003	8.4000e-004	2.0000e-005	8.7000e-004	0.0000	2.9641	2.9641	1.0000e-004	0.0000	2.9664

3.7 Architectural Coating - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1109					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0133	0.0926	0.1007	1.6000e-004		6.1000e-003	6.1000e-003		6.1000e-003	6.1000e-003	0.0000	14.0429	14.0429	1.0900e-003	0.0000	14.0701
Total	0.1242	0.0926	0.1007	1.6000e-004		6.1000e-003	6.1000e-003		6.1000e-003	6.1000e-003	0.0000	14.0429	14.0429	1.0900e-003	0.0000	14.0701

Anza 39 Unit Multi-Family - San Diego County, Annual

3.7 Architectural Coating - 2020**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2200e-003	9.0000e-004	8.8300e-003	3.0000e-005	2.6500e-003	2.0000e-005	2.6700e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.3921	2.3921	7.0000e-005	0.0000	2.3939
Total	1.2200e-003	9.0000e-004	8.8300e-003	3.0000e-005	2.6500e-003	2.0000e-005	2.6700e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.3921	2.3921	7.0000e-005	0.0000	2.3939

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1109					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	7.0800e-003	0.1008	1.6000e-004		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	14.0429	14.0429	1.0900e-003	0.0000	14.0701
Total	0.1126	7.0800e-003	0.1008	1.6000e-004		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	14.0429	14.0429	1.0900e-003	0.0000	14.0701

Anza 39 Unit Multi-Family - San Diego County, Annual

3.7 Architectural Coating - 2020**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2200e-003	9.0000e-004	8.8300e-003	3.0000e-005	2.6500e-003	2.0000e-005	2.6700e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.3921	2.3921	7.0000e-005	0.0000	2.3939
Total	1.2200e-003	9.0000e-004	8.8300e-003	3.0000e-005	2.6500e-003	2.0000e-005	2.6700e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.3921	2.3921	7.0000e-005	0.0000	2.3939

3.8 Building ConstructionCrane Usage - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.4100e-003	0.0526	0.0201	5.0000e-005		2.2300e-003	2.2300e-003		2.0500e-003	2.0500e-003	0.0000	4.5342	4.5342	1.4300e-003	0.0000	4.5701
Total	4.4100e-003	0.0526	0.0201	5.0000e-005		2.2300e-003	2.2300e-003		2.0500e-003	2.0500e-003	0.0000	4.5342	4.5342	1.4300e-003	0.0000	4.5701

Anza 39 Unit Multi-Family - San Diego County, Annual

3.8 Building ConstructionCrane Usage - 2019**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9000e-004	5.0200e-003	1.3500e-003	1.0000e-005	2.7000e-004	3.0000e-005	3.0000e-004	8.0000e-005	3.0000e-005	1.1000e-004	0.0000	1.0627	1.0627	9.0000e-005	0.0000	1.0648
Worker	1.1000e-003	8.5000e-004	8.1900e-003	2.0000e-005	2.2500e-003	2.0000e-005	2.2600e-003	6.0000e-004	2.0000e-005	6.1000e-004	0.0000	2.0958	2.0958	7.0000e-005	0.0000	2.0975
Total	1.2900e-003	5.8700e-003	9.5400e-003	3.0000e-005	2.5200e-003	5.0000e-005	2.5600e-003	6.8000e-004	5.0000e-005	7.2000e-004	0.0000	3.1585	3.1585	1.6000e-004	0.0000	3.1623

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.2000e-004	2.6900e-003	0.0227	5.0000e-005		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.5342	4.5342	1.4300e-003	0.0000	4.5701
Total	6.2000e-004	2.6900e-003	0.0227	5.0000e-005		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.5342	4.5342	1.4300e-003	0.0000	4.5701

Anza 39 Unit Multi-Family - San Diego County, Annual

3.8 Building ConstructionCrane Usage - 2019**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9000e-004	5.0200e-003	1.3500e-003	1.0000e-005	2.7000e-004	3.0000e-005	3.0000e-004	8.0000e-005	3.0000e-005	1.1000e-004	0.0000	1.0627	1.0627	9.0000e-005	0.0000	1.0648
Worker	1.1000e-003	8.5000e-004	8.1900e-003	2.0000e-005	2.2500e-003	2.0000e-005	2.2600e-003	6.0000e-004	2.0000e-005	6.1000e-004	0.0000	2.0958	2.0958	7.0000e-005	0.0000	2.0975
Total	1.2900e-003	5.8700e-003	9.5400e-003	3.0000e-005	2.5200e-003	5.0000e-005	2.5600e-003	6.8000e-004	5.0000e-005	7.2000e-004	0.0000	3.1585	3.1585	1.6000e-004	0.0000	3.1623

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Anza 39 Unit Multi-Family - San Diego County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0953	0.4246	1.1559	3.9200e-003	0.3363	3.3300e-003	0.3396	0.0901	3.1200e-003	0.0932	0.0000	361.2957	361.2957	0.0192	0.0000	361.7749
Unmitigated	0.0953	0.4246	1.1559	3.9200e-003	0.3363	3.3300e-003	0.3396	0.0901	3.1200e-003	0.0932	0.0000	361.2957	361.2957	0.0192	0.0000	361.7749

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	312.00	312.00	312.00	892,346	892,346
Total	312.00	312.00	312.00	892,346	892,346

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	7.30	7.50	42.00	18.00	40.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.593936	0.041843	0.182569	0.108325	0.016436	0.005513	0.015940	0.023523	0.001912	0.001972	0.006090	0.000748	0.001193

5.0 Energy Detail

Historical Energy Use: N

Anza 39 Unit Multi-Family - San Diego County, Annual

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	40.6624	40.6624	1.6200e-003	3.1000e-004	40.7952
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	40.6624	40.6624	1.6200e-003	3.1000e-004	40.7952
NaturalGas Mitigated	3.0200e-003	0.0259	0.0110	1.6000e-004		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	29.9334	29.9334	5.7000e-004	5.5000e-004	30.1113
NaturalGas Unmitigated	3.0200e-003	0.0259	0.0110	1.6000e-004		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	29.9334	29.9334	5.7000e-004	5.5000e-004	30.1113

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse	560931	3.0200e-003	0.0259	0.0110	1.6000e-004		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	29.9334	29.9334	5.7000e-004	5.5000e-004	30.1113
Total		3.0200e-003	0.0259	0.0110	1.6000e-004		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	29.9334	29.9334	5.7000e-004	5.5000e-004	30.1113

Anza 39 Unit Multi-Family - San Diego County, Annual

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse	560931	3.0200e-003	0.0259	0.0110	1.6000e-004		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	29.9334	29.9334	5.7000e-004	5.5000e-004	30.1113
Total		3.0200e-003	0.0259	0.0110	1.6000e-004		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	29.9334	29.9334	5.7000e-004	5.5000e-004	30.1113

5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	170532	40.6624	1.6200e-003	3.1000e-004	40.7952
Total		40.6624	1.6200e-003	3.1000e-004	40.7952

Anza 39 Unit Multi-Family - San Diego County, Annual

5.3 Energy by Land Use - Electricity**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	170532	40.6624	1.6200e-003	3.1000e-004	40.7952
Total		40.6624	1.6200e-003	3.1000e-004	40.7952

6.0 Area Detail**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1855	3.3500e-003	0.2902	2.0000e-005		1.6000e-003	1.6000e-003		1.6000e-003	1.6000e-003	0.0000	0.4730	0.4730	4.6000e-004	0.0000	0.4845
Unmitigated	0.1855	3.3500e-003	0.2902	2.0000e-005		1.6000e-003	1.6000e-003		1.6000e-003	1.6000e-003	0.0000	0.4730	0.4730	4.6000e-004	0.0000	0.4845

Anza 39 Unit Multi-Family - San Diego County, Annual

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0244					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1523					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.7900e-003	3.3500e-003	0.2902	2.0000e-005		1.6000e-003	1.6000e-003		1.6000e-003	1.6000e-003	0.0000	0.4730	0.4730	4.6000e-004	0.0000	0.4845
Total	0.1855	3.3500e-003	0.2902	2.0000e-005		1.6000e-003	1.6000e-003		1.6000e-003	1.6000e-003	0.0000	0.4730	0.4730	4.6000e-004	0.0000	0.4845

Anza 39 Unit Multi-Family - San Diego County, Annual

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0244					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1523					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.7900e-003	3.3500e-003	0.2902	2.0000e-005		1.6000e-003	1.6000e-003		1.6000e-003	1.6000e-003	0.0000	0.4730	0.4730	4.6000e-004	0.0000	0.4845
Total	0.1855	3.3500e-003	0.2902	2.0000e-005		1.6000e-003	1.6000e-003		1.6000e-003	1.6000e-003	0.0000	0.4730	0.4730	4.6000e-004	0.0000	0.4845

7.0 Water Detail**7.1 Mitigation Measures Water**

Anza 39 Unit Multi-Family - San Diego County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	12.9392	0.0833	2.0500e-003	15.6314
Unmitigated	12.9392	0.0833	2.0500e-003	15.6314

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	2.54101 / 1.60194	12.9392	0.0833	2.0500e-003	15.6314
Total		12.9392	0.0833	2.0500e-003	15.6314

Anza 39 Unit Multi-Family - San Diego County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	2.54101 / 1.60194	12.9392	0.0833	2.0500e-003	15.6314
Total		12.9392	0.0833	2.0500e-003	15.6314

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.6417	0.2152	0.0000	9.0221
Unmitigated	3.6417	0.2152	0.0000	9.0221

Anza 39 Unit Multi-Family - San Diego County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	17.94	3.6417	0.2152	0.0000	9.0221
Total		3.6417	0.2152	0.0000	9.0221

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	17.94	3.6417	0.2152	0.0000	9.0221
Total		3.6417	0.2152	0.0000	9.0221

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

Anza 39 Unit Multi-Family - San Diego County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

ATTACHMENT B

SCREEN3 for PM₁₀

05/07/18

19:36:23

*** SCREEN3 MODEL RUN ***
 *** VERSION DATED 13043 ***

39 Unit Multi-Family ANZA

SIMPLE TERRAIN INPUTS:

SOURCE TYPE = AREA
 EMISSION RATE (G/(S-M**2)) = 0.622000E-08
 SOURCE HEIGHT (M) = 3.0000
 LENGTH OF LARGER SIDE (M) = 113.8000
 LENGTH OF SMALLER SIDE (M) = 113.8000
 RECEPTOR HEIGHT (M) = 1.5000
 URBAN/RURAL OPTION = URBAN

THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED.

THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED.

MODEL ESTIMATES DIRECTION TO MAX CONCENTRATION

BUOY. FLUX = 0.000 M**4/S**3; MOM. FLUX = 0.000 M**4/S**2.

*** FULL METEOROLOGY ***

*** SCREEN AUTOMATED DISTANCES ***

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

DIST (M)	CONC (UG/M**3)	STAB	U10M (M/S)	USTK (M/S)	MIX HT (M)	PLUME HT (M)	MAX DIR (DEG)
10.	0.6673E-01	5	1.0	1.0	10000.0	3.00	45.
100.	0.9840E-01	5	1.0	1.0	10000.0	3.00	45.
200.	0.4626E-01	5	1.0	1.0	10000.0	3.00	45.
300.	0.2807E-01	5	1.0	1.0	10000.0	3.00	45.
400.	0.1919E-01	5	1.0	1.0	10000.0	3.00	45.
500.	0.1407E-01	5	1.0	1.0	10000.0	3.00	43.
600.	0.1083E-01	5	1.0	1.0	10000.0	3.00	44.
700.	0.8653E-02	5	1.0	1.0	10000.0	3.00	43.
800.	0.7115E-02	5	1.0	1.0	10000.0	3.00	43.
900.	0.5986E-02	5	1.0	1.0	10000.0	3.00	43.
1000.	0.5131E-02	5	1.0	1.0	10000.0	3.00	38.
1100.	0.4467E-02	5	1.0	1.0	10000.0	3.00	45.
1200.	0.3937E-02	5	1.0	1.0	10000.0	3.00	35.
1300.	0.3509E-02	5	1.0	1.0	10000.0	3.00	38.
1400.	0.3155E-02	5	1.0	1.0	10000.0	3.00	45.
1500.	0.2860E-02	5	1.0	1.0	10000.0	3.00	32.
1600.	0.2611E-02	5	1.0	1.0	10000.0	3.00	1.
1700.	0.2399E-02	5	1.0	1.0	10000.0	3.00	1.
1800.	0.2214E-02	5	1.0	1.0	10000.0	3.00	4.
1900.	0.2054E-02	5	1.0	1.0	10000.0	3.00	27.
2000.	0.1914E-02	5	1.0	1.0	10000.0	3.00	43.
2100.	0.1791E-02	5	1.0	1.0	10000.0	3.00	41.
2200.	0.1681E-02	5	1.0	1.0	10000.0	3.00	39.
2300.	0.1583E-02	5	1.0	1.0	10000.0	3.00	37.
2400.	0.1495E-02	5	1.0	1.0	10000.0	3.00	1.
2500.	0.1416E-02	5	1.0	1.0	10000.0	3.00	1.
2600.	0.1343E-02	5	1.0	1.0	10000.0	3.00	33.
2700.	0.1278E-02	5	1.0	1.0	10000.0	3.00	31.
2800.	0.1218E-02	5	1.0	1.0	10000.0	3.00	30.
2900.	0.1163E-02	5	1.0	1.0	10000.0	3.00	15.
3000.	0.1113E-02	5	1.0	1.0	10000.0	3.00	15.
3500.	0.9124E-03	5	1.0	1.0	10000.0	3.00	9.
4000.	0.7711E-03	5	1.0	1.0	10000.0	3.00	2.

AQ Attach B - ANZA Out

4500.	0.6661E-03	5	1.0	1.0	10000.0	3.00	1.
5000.	0.5851E-03	5	1.0	1.0	10000.0	3.00	8.
5500.	0.5212E-03	5	1.0	1.0	10000.0	3.00	19.
6000.	0.4696E-03	5	1.0	1.0	10000.0	3.00	24.
6500.	0.4270E-03	5	1.0	1.0	10000.0	3.00	25.
7000.	0.3913E-03	5	1.0	1.0	10000.0	3.00	33.
7500.	0.3610E-03	5	1.0	1.0	10000.0	3.00	31.
8000.	0.3350E-03	5	1.0	1.0	10000.0	3.00	33.
8500.	0.3124E-03	5	1.0	1.0	10000.0	3.00	27.
9000.	0.2927E-03	5	1.0	1.0	10000.0	3.00	15.
9500.	0.2752E-03	5	1.0	1.0	10000.0	3.00	15.
10000.	0.2597E-03	5	1.0	1.0	10000.0	3.00	9.

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 10. M:
 89. 0.1047 5 1.0 1.0 10000.0 3.00 45.

 *** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO MAX (M)	TERRAIN HT (M)
----- SIMPLE TERRAIN	----- 0.1047	----- 89.	----- 0.

 ** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

ATTACHMENT C

Health Risk Calculations

Air Quality Health Risk Calculations (Worst-Case)
Jamul Commercial (Tier IV)

From CalEE Annual Output	Emission per day (Ton/Total Construction Duration)	0.00095
	Number of Workdays	371
	Emission per day (lb/day)	0.005121294
	Construction day (Hours)	8
	Emission Rate (Grams/Second)	8.05537E-05
	Project Site Size (Acres)	3.2
	Project Site Size (meters)	12949.94055
	Length of Smalles Side (meters)	113.7978056
Used as an input to Screen3	Emission Rate over Grading Area	6.22039E-09

From Screen3	1-hr Emission Levles (Ug/M^3)	0.1047
--------------	-------------------------------	--------

Multiply by 0.08 for annual conversion	Concentration Annual (Ug/M^3)	0.008376
--	-------------------------------	----------

	Construction Days	Construction Days converted to years				
Duration	371	1.016438356				
Age (Years)	3rd Trimester (0.25)	0-2	2-9	2-16	16-30	16-70
Cair (annual) - From F15	0.008376	0.008376	0.008376	0.008376	0.008376	0.008376
Breathing Rate per agegroup BR/BW (Page 5-25)	361	1090	861	745	335	290
A (Default is 1)	1	1	1	1	1	1
Exposure Frequency = EF (days/365days)	0.96	0.96	0.96	0.96	0.96	0.96
10^-6 Microgram to Milligram / liters to m3	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001
Dose-inh	0.00000290	0.00000876	0.00000692	0.00000599	0.00000269	0.00000233
Construction Days	371	1.016438356				
potency factor for Diesel	1.1	1.1	1.1	1.1	1.1	1.1
Age Sensitivity Factor	10	10	3	3	1	1
ED	0.25	1.016438356	1.016438356	1.016438356	1.016438356	1.016438356
AT	70	70	70	70	70	70
FAH	0.85	0.85	0.72	0.72	0.73	0.73
Risk for Each Age Group	9.69323E-08	1.18995E-06	2.38858E-07	2.06678E-07	3.14088E-08	2.71897E-08
	0.096932337	1.189950828	0.238858387	0.206677698	0.031408794	0.027189702
Cancer Risk Per Million 9-years	1.53					
Cancer Risk Per Million 30-years	1.52					
Cancer Risk Per Million 70-years	1.52					